



Edition  
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SITOP  
**5**  
YEAR  
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Warranty

THE HEART OF AUTOMATION

# SITOP Power Supply

Three reasons for SITOP: reliability, efficiency, and integration.

[siemens.com/sitop](https://www.siemens.com/sitop)

**SIEMENS**



SITOP PSU8400 and SEL1600 – Power supply system with IO-Link for a high degree of transparency and reliability of the 24 V supply and its individual load circuits. The new SITOP PSU8400 3-phase power supplies and SITOP SEL1600 selectivity modules can be conveniently parameterized and diagnosed via integrated displays or IO-Link, see pages 08/09.



See highlight topics



SITOP PSU6200 – The all-round power supply for a wide range of applications and greater sustainability, whether it's for 24 V, 12 V, 48 V, control circuits in accordance with NEC Class 2, or environments at risk of explosion: See pages 10/11 and technical details on pages 35-39.

## SITOP power supplies bring production plants to life.

An efficient power supply is a basic requirement for operating any plant, no matter the industry or need. Critical production processes can only be maintained if a constant power supply of the necessary quality is available for the automation system. For decades, SITOP – the heart of automation – has been bringing production plants to life. The complete, precisely coordinated range of products guarantees a reliable power supply, and is especially suited to the growing demands of our time. And in the event of an incident, we provide a 5-year warranty for every SITOP device worldwide, except for batteries and power supplies in a SIMATIC design.

# Three good reasons for SITOP



## Reliability

SITOP has proven its reliability in nearly all networks around the world. With a flexible, wide-range input, outstanding load characteristics, and all the relevant certifications, SITOP power supply units safeguard the availability of your plant. Add-on modules prevent problems on the line or DC side. And when upgraded to an uninterruptible power supply, the 24-V power supply units bridge power failures for a period of seconds, minutes, or hours. In the event of a fault-specific

overload or short circuit in the output circuit, selective disconnection of the feeder ensures continued operation because the supply to other loads is maintained. For highly critical applications, redundant power supply solutions are also an option. If a replacement is ever needed, our global customer service ensures the fastest possible delivery: All SITOP products can be supplied from stock with a 5-year warranty, except for batteries and power supplies in a SIMATIC design.



## Efficiency

Reduced energy costs are a valuable competitive advantage. SITOP makes an important contribution, because the primary switched-mode power supply units operate highly efficiently. For example, SITOP PSU6200 and PSU8400 have an efficiency of up to 96%. SITOP PSU8600, on the other hand, records power data from all outputs, which is then further processed in energy management systems. And via PROFlenergy, power supply outputs can be switched off selectively:

for example, during breaks. The SITOP SEL1600 selectivity system provides this energy-saving function by disconnecting the outputs via IO-Link. Efficiency also characterizes the product lifecycle. With the TIA Selection Tool, we offer special tools to make it easy to select a power supply, add-on modules, and DC UPS. We provide all the design data for all common CAE systems as well as the corresponding product documentation. Our use of resources is also efficient. This is what the Siemens EcoTech label stands for on many of our SITOP devices.



## Integration

SITOP sets a benchmark in terms of integration: Complete integration of the SITOP PSU8600 power supply system and SITOP UPS1600 DC UPS in Totally Integrated Automation, TIA Portal, and SITOP Manager saves time and money and facilitates fail-safe engineering. With the SITOP PSU8400 power supply and the SEL1600 selectivity system, integration via IO-Link is now also possible. For the selectivity modules and the SITOP PSU6200 product line, S7 function blocks evaluate important diagnostic information. The SITOP UPS1600 can

easily be integrated via USB or Ethernet to protect PC-based automation systems from power failures. And the SITOP library for SIMATIC PCS 7 enables a transparent 24-V supply in the process control system during ongoing operation. Besides PROFINET, SITOP PSU8600 and SITOP UPS1600 also communicate via OPC UA. With the OPC UA server, it's also possible to directly integrate units such as controllers or PCs into automation applications with OPC UA clients from different vendors.

## Three SITOP categories for the different demands on an industrial power supply

### Advanced power supplies

The switched-mode power supply units in the Advanced performance class are the optimal choice for maximum reliability and functionality as required in the process and automotive industries or in special-purpose machine manufacturing. The SITOP PSU8200 product line meets these extreme requirements due to their overload behavior, efficiency, and compactness. In addition, the SITOP PSU8600 power supply system offers communication via PROFINET, EtherNet/IP or OPC UA and the first digital SITOP PSU8400 power supply via IO-Link.

### Standard power supplies

Our SITOP smart and SITOP PSU6200 standard power supplies were designed for typical industrial applications like those in special-purpose machine manufacturing. The extensive portfolio of the SITOP PSU6200 all-round power supply also offers further application possibilities, for example in areas with a potentially explosive atmosphere. The new SITOP standard is very energy-efficient and robust and has extensive diagnostic capabilities.

### Basic power supplies

From flat power supplies for distribution boards to cost effective basic power supplies and slim power supply units for control boxes – even in the low-performance range, SITOP leaves nothing to be desired. LOGO!Power offers you miniature power supply units in the LOGO! module design. And SITOP PSU4200 represents a solution that's both low-cost and reliable, with quick wiring and a power monitor for condition diagnostics.

# Overview of SITOP product line

What an optimal power supply looks like depends on numerous factors – size, performance range, and functions, to name but a few. The extensive

range of SITOP products ensures that your power supply will always match your requirements.

## Advanced power supplies



### SITOP PSU8600

#### **The power supply system for digitalization and Industry 4.0**

The innovative SITOP PSU8600 power supply system is fully integrated into Totally Integrated Automation and the TIA Portal. It's integrated directly into networked automation applications via its Ethernet/PROFINET or Ethernet/IP interface or OPC UA. SITOP PSU8600 not only offers diagnostics options, it also supports the energy management of a plant or machine. The modular system can be expanded to 36 outputs and provides buffer and DC UPS modules for protection against power failures.

Pages 28–31



### SITOP PSU8400

#### **The power supply with IO-Link that puts its values on display**

The first digital SITOP power supply makes it possible to diagnose the current operating values via the device display and via IO-Link. This makes complete transparency of the 24 V power supply possible. It is also easy to make individual settings for each application via the display and IO-Link. SITOP PSU8400 also provides additional benefits with its high power reserves, small footprint, and very high efficiency.

Page 32



### SITOP PSU8200

#### **The technology power supply for demanding solutions**

SITOP PSU8200 is ideal for complex plants and machines. The wide-range input allows it to be connected to any supply system and also to withstand large voltage fluctuations. The power boost briefly delivers up to three times the rated current. And in the event of an overload, you can choose between constant current with automatic restart or latching shutdown. The high degree of efficiency reduces energy consumption, while the compact metal enclosure saves space.

Pages 33–34

## Standard power supplies



### SITOP PSU6200

#### **The all-around power supply for a wide range of applications**

SITOP PSU6200 is the extremely high-performance power supply for 24, 12, and 48 V standard applications, in addition to 24 V applications in environments at risk of explosion. The compact, energy-efficient power supply units offer comprehensive functions and features for focused diagnostics, fast installation, and dependable operation. Whether it's LED status indicators, integration into preventive maintenance, push-in terminals, or rugged input – SITOP PSU6200 has it all.

Pages 35–37

## Standard power supplies



### SITOP smart

#### **The powerful standard power supply**

SITOP smart is the optimal power supply for many 24-V and 12-V applications, featuring powerful performance and an affordable price. Even large loads can be easily switched on, due to its overload characteristics that provide 1.5 times the rated current for 5 seconds. And with a rated capacity of 120 percent at ambient temperatures up to 45°C, these slim power supply units are among the most reliable of their kind.

Pages 38–39

## Basic power supplies



### SITOP PSU4200

#### **The cost-effective basic power supply**

SITOP PSU4200 is the power supply series for basic requirements in an industrial environment, offering all the important functions at a low cost – without compromising quality and reliability. Fast wiring, compact structure, and a power monitor make these single and 3-phase power supply units practical to use.

Page 40



### LOGO!Power

#### **The flat power supply for distribution boards**

Small. Clever. LOGO!Power. The fourth generation of the globally proven miniature power supply units with a flat, stepped profile features high performance in a small space. The comprehensive functionality with flexible installation, current monitoring, and high energy efficiency permits universal use in applications with 5 V, 12 V, 15 V, and 24 V.

Pages 41–42

## SITOP DC/DC converters

### SITOP DC/DC converters

#### **Stable power supply despite fluctuating DC voltage**

SITOP DC/DC converters ensure a stable control voltage: in battery-powered vehicles, as a “refresher” in long lines, in power stations, and in the converter DC link in wind turbines or machine tools.

Page 44

## SIMATIC Design

#### **The optimal supply for SIMATIC S7 and more**

Page 43

## Special designs

#### **Equipped for special functions and conditions**

Pages 45–46

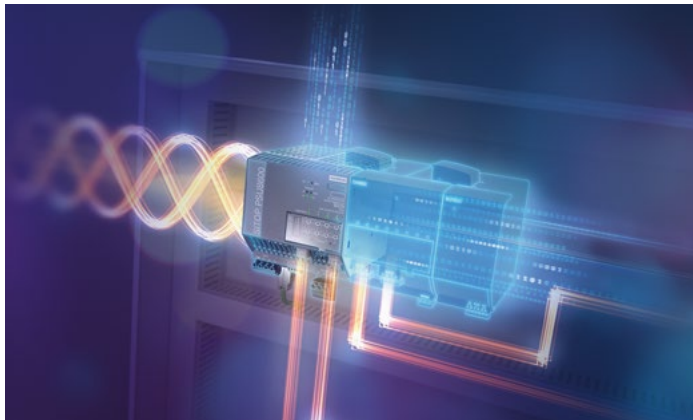
# SITOP PSU8600 – the power supply system for digitalization and Industry 4.0

Complex plants set high requirements for the efficiency, flexibility and reliability of the components used. The innovative power supply system SITOP PSU8600 fulfills them all – with its unique functionality, diagnostics capability,

modular expandability and complete integration in TIA or via an OPC-UA server in many other systems.

Product overview

Advanced power supplies



## SITOP PSU8600 – in dialog with your power supply

The SITOP power supply system includes the SITOP PSU8600 basic unit, the SITOP CNX8600 expansion modules, the SITOP BUF8600 buffer modules and the SITOP UPS8600 UPS module with the BAT8600 battery modules. It can be integrated seamlessly in TIA Portal, SIMATIC PCS 7 and WinCC. Due to the comprehensive data exchange over PROFINET or OPC-UA, the power supply is in constant dialog with the control unit and thus enables preventive maintenance and energy management in the control circuit. With a new version of the 4 x 10 A basic device, communication is now also possible via EtherNet/IP.



## Did you know that...

with a new version of the 4 x 10 A basic device, communication is now also possible via EtherNet/IP?

## SITOP PSU8600 System – modular and integrated



**SITOP BUF8600**  
buffer modules



**SITOP CNX8600**  
expansion modules



**SITOP PSU8600**  
base units



**SITOP UPS8600**  
USV modules



**SITOP BAT8600**  
battery modules

### Integration



Controller



Monitoring

PROFINET,  
OPC-UA,  
EtherNet/IP



Engineering with TIA Portal



Open communication

# The modular system toolbox

Product overview



**Base unit**  
Power supply 24 V/20 A or 40 A with one or four selectively monitored outputs



**Expansion modules**  
Expansion to up to 36 selectively monitored outputs



**Buffer modules**  
Bridging short power failures



**DC UPS and battery modules**  
Bridging long power failures

Data sheet



## Fast and easy integration in the automation

The SITOP PSU8600 power supply system can be integrated seamlessly in TIA portal, SIMATIC PCS 7 and WinCC. Two industrial PROFINET or EtherNet/IP ports enable the system to be integrated easily into the automation environment. Vendor-independent data exchange is possible through the open communication interface OPC UA.

Parameterization, operation, and monitoring of the PROFINET versions can be performed via the user-friendly SITOP Manager engineering and diagnostics software. The integrated web server enables remote access. The support of PROFinergy, allows specific outputs to be switched off to save energy and costs during break periods.

[More about SITOP Manager](#)



## High degree of flexibility with modular system unit

The compact basic unit provides one or four individually adjustable outputs – and thus up to four power supplies in one device. Each output can be set flexibly to 4–28 V, even dynamically during operation and with selective monitoring for over current. The “system clip link” can be used to extend the power supply system with various modules without additional wiring work and therefore expand it to up to 36 outputs and provide protection against supply system outages.



## High plant availability

The comprehensive diagnostics options of the SITOP PSU8600 power supply system provide the basis for preventive maintenance: Faults can therefore be detected, assigned and corrected in the shortest possible time. To ensure that a short-circuit or overload at a single consumer doesn't bring the entire plant to a standstill, all outputs whose voltage and current threshold can be set individually are selectively monitored and switched off individually in the event of a fault. Because the current of each output can be recorded continuously and transmitted via a communication interface, overload states can be detected early. With a suitable buffer and battery modules, supply system failures can be bridged from seconds to hours, thus preventing a plant shutdown.

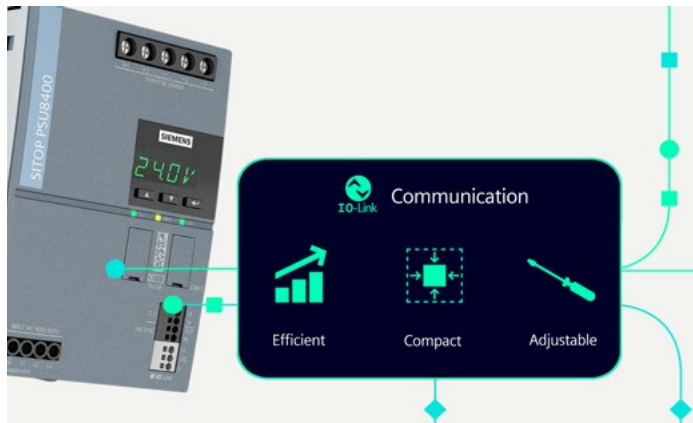
# SITOP PSU8400 – the power supply with IO-Link that puts its values on display

A practical device display, integrated IO-Link interface, high power reserves, high efficiency, and compact design makes SITOP PSU8400 the perfect power supply for a wide range of applications.

Its robustness ensures reliable power supply in unstable supply networks. In the event of a fault, even 2-phase operation is permitted.

[Product overview](#)

## Advanced power supplies



### Communicative. Compact. And efficient.

SITOP PSU8400 not only provides high power reserves, a small footprint, and very high efficiency but this digital power supply with 20 A or 40 A can be parameterized and monitored remotely via the integrated bidirectional IO-Link interface (using ready-made faceplates in WinCC). However, it is also easy to perform parameterization and diagnostics on site via the device display.



### Did you know that...

SITOP PSU8400 can also be used without IO-Link communication?

### Operation on the device and via IO-Link

The four-digit alphanumeric display and the three operating buttons allow tool-free parameterization right on the device, for example for the exact output voltage, current limitation, overload and disconnection behavior, as well as for switching the output on/off.

In addition, extensive diagnostics are possible via the display without a gauge or communication connection, for example the input and output voltage, the output current, the operating status, and much more.

The standardized IO-Link interface enables the digital power supply to be parameterized via the automation system, for example with TIA Portal. In the case of special-purpose machines, this means that consistent settings can be transferred in a time-saving manner.

Remote diagnostics via IO-Link enables early detection of critical power supply conditions for preventive maintenance.



# The IO-Link power supply



**SITOP PSU8400**  
3-phase 24 V, 40 A



**SITOP PSU8400**  
3-phase 24 V, 20 A

# ... and the device network



**Configuration**  
SITOP PSU8400 20 A with  
SITOP SEL1600

For maximum reliability and availability, SITOP PSU8400 can be expanded with buffer, DC UPS, redundancy, and selectivity modules from SITOP.

A combination with the IO-Link-compatible SITOP SEL1600 selectivity system in the same design is particularly easy via a connecting bracket for power and a ribbon cable for data. Only a single IO-Link connection is required to import and export all device data. An additional advantage of the combination is the load management: It allows prioritized shutdown of non-critical SEL1600 outputs before the SITOP PSU8400 power supply is overloaded.

## Visibly high efficiency

With a narrow width of just 59 mm for the 20 A device and 99 mm for the 40 A device, SITOP PSU8400 fits into tight spaces and does not require any lateral installation space on the DIN rail. In addition, the efficiency of up to 96% reduces heat loss in the control cabinet as well as energy costs.

## Visibly high reliability

If a high overload capacity to safeguard production is required, these power reserves are the right choice. SITOP PSU8400 not only provides up to 150% extra power for 5 seconds/minute and even 20% more continuous current up to 45 °C, but also a 300% power boost for 25 ms (for example for tripping circuit breakers). Power supply units can be connected in parallel to increase performance or for redundancy. A synchronization line ensures an even current distribution between the power supply units, increasing their service life.

## Visibly easy integration

SITOP PSU8400 can be easily integrated into the IO-Link network via IO-Link at the field level. Reading and writing takes place via standardized IO technology with noise-immune, point-to-point transmission and the fastest IO link transmission COM3 at 230.4 kBit/s. In the event of a fault, parameterization via IO-Link allows to quickly replace the device via plug & play.

## Visibly better selectivity

The basic unit of the SITOP SEL1600 selectivity system is also equipped with an IO-Link interface and device display. Expansion modules can be used to expand this to up to 40 outputs, all of which can be individually set to optimally protect the loads in the respective circuit against overloads and short circuits. The IO-Link interface enables extensive parameterization and supplies higher-level systems with

important diagnostic and maintenance data. Settings and diagnostics can be conveniently carried out on site via the display.

SITOP SEL1600 can be combined with any regulated 24 V power supply. Together with the SITOP PSU8400 power supply, a device network can be set up with specific advantages when it comes to supplying and monitoring individual load circuits.

# SITOP PSU6200 – the all-around power supply for a wide range of applications

A new benchmark in the area of standard power supplies: With its award-winning industrial design, space-saving width, optimized terminals, comprehensive diagnostics options, and high operational reliability, SITOP PSU6200 offers attractive

prospects for a variety of different applications and areas of operations, even in environments at risk of explosion.

Product overview

## Standard power supplies



### Focused diagnostics. Top integration.

With SITOP PSU6200 you benefit from a high degree of transparency during operation. The integrated diagnostics monitor, in the more powerful units, has an LED display on the housing which enables immediate identification of how high the power supply's load is or whether the unit is coming to the end of its life. In this way it is possible to respond to critical states to prevent unforeseen plant failure.

Via the power supply unit's diagnostics interface, additional important operating parameters and statuses such as current, voltage, overload, operating hours, temperature, and device/type can be transferred to the controller and incorporated in condition monitoring. The signal is evaluated by means of a free S7 function block. In addition, a faceplate for visualizing the data on an HMI is available for download.

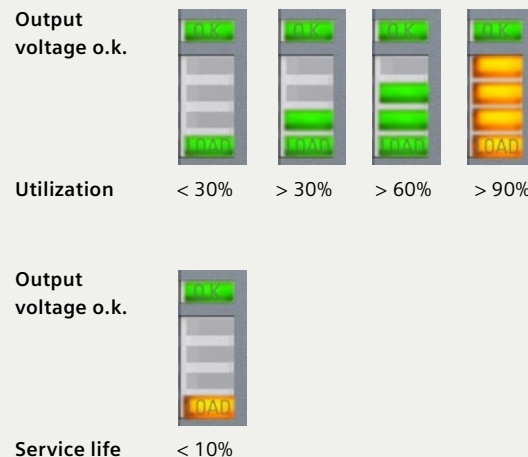


### Did you know that ...

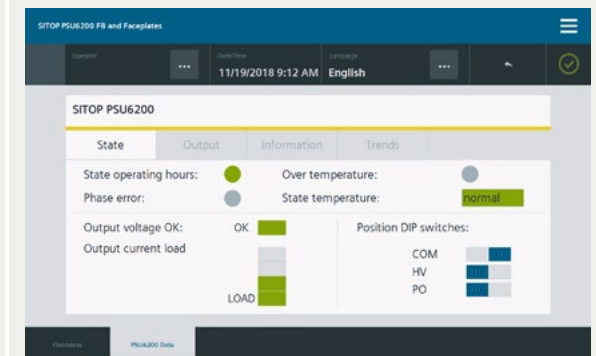
only one digital input is required on the PLC for transferring comprehensive diagnoses?

## Diagnostics monitor/Diagnostics interface

SITOP PSU6200 power supply units as of 24 V/10 A, 12 V/12 A and 48 V/5 A have a diagnostics monitor and a diagnostics interface. The diagnostics monitor indicates their operating status, current utilization, and end of service life via 5 LEDs.



The diagnostics interface outputs a serial code to a digital input of a PLC that is evaluated by a function block. A WinCC faceplate makes visualization easy:



Learn more

# The all-around power supply

Product overview



Data sheet

## Fast installation. Top efficiency.

Space savings, front labeling, push-in terminals – with SITOP PSU6200, you make no compromises when installing and wiring. Inside the control cabinet, space is a valuable commodity. You can make even better use of this space, with the extremely narrow width of these power supply units. And with optimized heat dissipation and an efficiency rate up to 96.6 percent, the units require no lateral clearance between components, which also saves space on the DIN rail.

The all-around power supplies also facilitate and speed up fail-safe wiring. Unique terminal labeling makes correct wire connection easier, and push-in terminals make wiring fast. An additional, uniquely identified minus terminal also makes it easier to ground PELV (protective extra-low voltage) circuits according to the Machinery Directive.



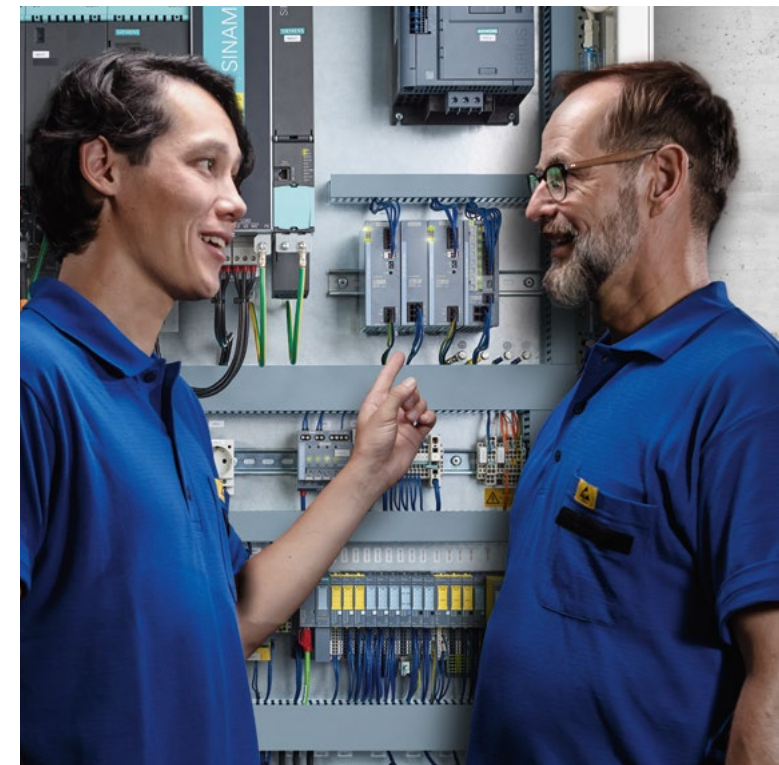
## Dependable operation. Top reliability.

Dependable overload behavior, robust input, and a metal enclosure for optimal heat dissipation – with SITOP PSU6200, you're on the safe side. Their extra power means that the high-performance power supply units provide a 50 percent higher rated current for up to five seconds in the event of an overload. If the overload is extremely high, they keep the current constant and change to hiccup mode for self-protection only when the output voltage drops to 15 volts. Once the overload has been corrected, they continue in normal operation.

You're also optimally equipped to handle bad line quality. With the robust wide-range input for AC and DC voltage, these all-around power supplies are well-protected against undervoltages and overvoltages from the grid. In the event of a phase failure, the 400-V units even permit continuous two-phase operation. The higher-performance power supply units also have active power factor correction (PFC) that keeps the reactive current and inrush current low.

New redundancy, buffer, and selectivity modules in the attractive SITOP PSU6200 design ensure even higher availability. [See pages 15 and 16.](#)

Extensive range of Ex versions for use in gaseous environments at risk of explosion, Zone 2.  
[Find out more](#)



Add-on modules

# SITOP PSU4200 – The power supply with Fresh Power for basic applications

Adding new vitality to basic power supplies: The low-cost SITOP PSU4200 power supply for basic applications in an industrial setting will impress with its high efficiency and reliability, fast wiring, and improved sustainability. SITOP PSU4200 offers

a wide range of devices for different power ranges: Choose from 1-phase 24 V power supply units rated 3 A, 5 A, 10 A, or 20 A, and 3-phase 24 V power supply units rated 10 A and 20 A.

Product overview

## Basic power supplies



### Did you know that ...

the SITOP PSU4200 power supply units deliver a constant current in the event of overload and therefore don't immediately disconnect?



#### Fresh Power for more efficiency

SITOP PSU4200 leaves nothing to be desired, even with the 24 V supply for basic applications: The push-in connection system, front-mounted, easily accessible terminals, and clear terminal labeling, allows for quick and easy installation of these power supply units. They can also be mounted directly alongside each other on the DIN rail with no lateral clearances. Together with their compact design, this saves space in the control panel.

A high efficiency rating of up to 93% ensures minimal power loss combined with minimal heat generation and a long service life. This also saves fan power in the control panel. The 1-phase 20 A power supply unit demonstrates its efficiency in the form of reduced reactive power due to active PFC (Power Factor Correction).



#### Fresh Power for more transparency

The LEDs on the integrated power monitor show the current operating status of the SITOP PSU4200 at a glance. A green LED indicates that everything is in order (DC OK / 24 V / 0-85%). A yellow LED, on the other hand, warns of a temporary increase in consumer current (DC in limit range: > 85%), caused by overloading or power supply parameters in the limit range. And if the LED is off, that means no current is flowing.

In addition, the power supply units can be connected to the PLC via a DC OK alarm contact (24 V) and can thus be integrated into the automation system for evaluation.



#### Fresh Power for uninterrupted reliability

Even when the going gets a little rough with basic applications, you can rely on SITOP PSU4200: The high level of reliability of these basic power supply units ensures this, with full load current up to +60 °C and a temperature range of -25 °C to +70 °C. Derating occurs only from +60 °C. The adjustable output voltage from 24 to 28 V DC offsets voltage drops on long lines.

For maximum reliability and availability, you can also easily expand the power supply units with the SITOP DC UPS and add-on modules. [See pages 13–15.](#)

# SITOP ensures reliable 24-V supply – even when the power fails

Power outages can bring a plant to a standstill, with high costs in terms of both time and money. The SITOP DC UPS systems with different types of energy storage devices and communication

interfaces offer solutions for all buffering time and plant integration requirements.

## Uninterruptible power supply

### DC UPS module For expansion to an uninterruptible 24-V power supply



Data sheet

#### SITOP DC UPS with capacitors

These high-capacitance double-layer capacitors (Ultracaps) store sufficient energy to shut down PC-based systems safely.

#### Totally maintenance-free

The capacitors have an extremely long life even at high ambient temperatures. No maintenance or replacement of the energy buffer is required, which means that the DC UPS pays for itself within a short time. And because the capacitors do not emit any gas, no ventilation of the control cabinet is required. Short recharging times quickly restore buffering capability following a power failure.

#### Modular expansion possible

The buffering time of the UPS500S for DIN rail mounting can be extended by adding UPS501S expansion modules.

- Expandable to up to 20 kW for longer buffering times
- Capacitors eliminate replacement of batteries
- Long life even at high temperatures
- No ventilation of the installation site required
- Communication via contacts or USB
- Easy engineering via SITOP Manager (as of V1.1, [see page 22](#) for more details)



Data sheet

#### SITOP DC UPS with battery modules

Compact DC UPS modules ensure continued operation, even over a period of hours, depending on battery capacity and power requirements.

#### High system availability with battery management

Sophisticated battery management and temperature-controlled charging offered by the UPS1600 ensures maximum battery service life. The new BAT1600 battery modules calculate their health and remaining service life, so you can replace batteries in good time and improve availability.

- SITOP UPS1600 DC UPS modules with 24 V and up to 40 A and new BAT1600 battery modules up to 38 Ah
- BAT1600 battery modules with integrated electronics and battery cells based on lithium iron phosphate (LiFePO4) or lead
- Monitoring of operational readiness, battery feeder, charging status, and service life



### Did you know that ...

the function "State of Health (SOH)" can be used to evaluate the remaining service life of the SITOP BAT1600 battery modules?

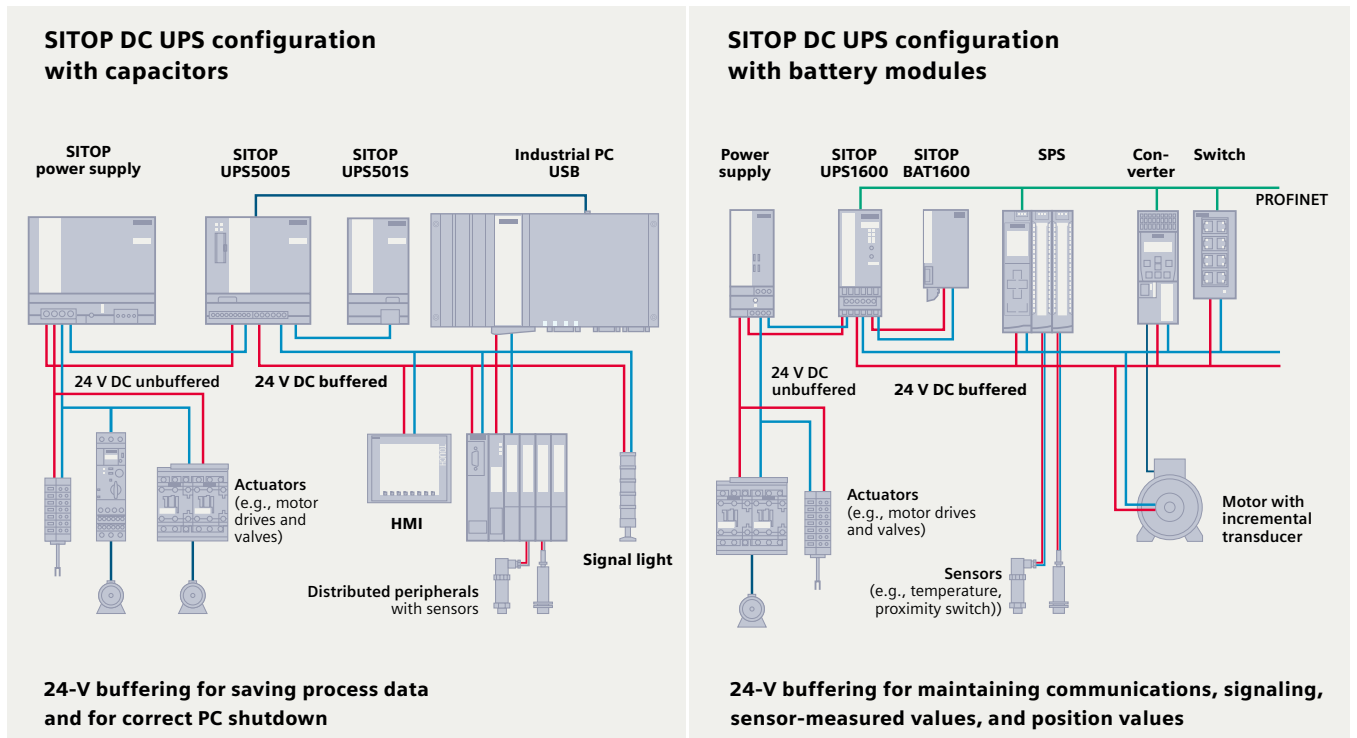
| SITOP module for 24-V buffering                             | Buffer module           | UPS500                  | UPS1600                     |                   |
|---|-------------------------|-------------------------|-----------------------------|-------------------|
| <b>Energy storage device</b>                                |                         |                         |                             |                   |
| 24 V buffer time  | max. 10 s               | Minutes                 | Hours                       |                   |
| Storage medium  | Electrolytic capacitors | Double-layer capacitors | Lead batteries              | Lithium batteries |
| Service life (also temperature-dependent)                   | ++                      | ++                      | •                           | +                 |
| Application area (temperature, ventilation)                 | +                       | ++                      | •                           | +                 |
| <b>UPS module/electronics</b>                               |                         |                         |                             |                   |
| max. rated output current                                   | 40 A                    | 15 A                    | 40 A                        |                   |
| Overload capacity   | ++                      | +                       | ++                          |                   |
| Interfaces  |                         | I/O, serial, USB        | I/O, USB, Ethernet/PROFINET |                   |
| Operating and diagnostic information via                    |                         |                         |                             |                   |
| – Signaling contacts  |                         | •                       | •                           |                   |
| – OPC UA server, Web server, S7 FBs, WinCC faceplate        |                         |                         | •                           |                   |
| Shutting down multiple PCs/PLCs                             |                         |                         | •                           |                   |
| Start from battery without mains voltage (island operation) |                         |                         | •                           |                   |
| Engineering via SITOP Manager                               |                         | •                       | •                           |                   |
| Engineering via TIA Portal, STEP 7, WinCC, or OPC UA        |                         |                         | •                           |                   |
| SITOP library for SIMATIC PCS 7                             |                         |                         | •                           |                   |

#### Extremely communicative

Optional communication via USB or Industrial Ethernet/PROFINET. With open communication via Ethernet, configuration and diagnostics are conveniently performed by the SITOP Manager. This PC software with a user interface based on a Web browser permits simple parameterization: for example, for safely shutting down multiple PCs.

The UPS1600 can even be fully integrated into TIA via PROFINET. Remote monitoring is possible with support from the integrated web server.

- Communication via contacts, USB, or two Ethernet/PROFINET ports
- Easy engineering and extensive diagnostics in [TIA Portal](#)
- OPC UA server for the flexible integration of a wide variety of automation, operating, and monitoring systems
- User-friendly **SITOP Manager** engineering and diagnostics tool for simple integration into open systems ([more details on page 22](#))



# SITOP add-on modules – all-round protection à la carte

Processes and plants that are critical for a company's business generally require additional protection measures.

SITOP add-on modules individually protect your production against many sources of risk.

## Add-on-Module

### Add-on modules

For increasing system availability to all-round protection



Data sheet

#### Safeguarding against failure through redundancy

Two power supply units can be connected via the SITOP redundancy module for additional failure safety. If one unit fails, the other automatically takes over the power supply function. Even in the event of a short circuit inside a power supply unit, the power supply remains reliable. With its high dielectric strength, the new RED1200 redundancy module also decouples power supplies without output voltages up to 48 V.



Data sheet

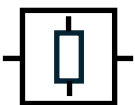
#### Selective disconnection of faulty 24-V feeders

The SITOP selectivity modules are specifically tailored to switched-mode power supplies. The modules permit brief current peaks and switch off the electricity for longer overloads, even on long, thin cables and with creeping short circuits in which the current is limited by the high ohmic resistance. In this case the circuit-breakers do not trip, or they trip too late, even if the power supply could deliver the current. The selectivity modules reliably disconnect the faulty load circuits, and the supply to the other loads continues with absolutely no interruption so that total failure of the plant can be avoided. The affected feeder is indicated by an LED. The SITOP PSE200U selectivity modules with single-channel diagnostics allow remote channel-spe-

cific fault location. Only one digital PLC input is required for analysis. This also applies to the SITOP SEL1200 and SEL1400 selectivity modules, which transmit other important data such as the present current or the reason for disconnecting an output via their diagnostic interface. The new SITOP SEL1600 selectivity system, on the other hand, communicates via the standard IO-Link interface, through which both extensive diagnostics and parameterization are possible.

If circuit breakers are to be used, the SITOP PSU8200 and PSU8400 power supply units with a triple power boost are the right choice, or alternatively a standard power supply supported by the new SITOP PBM1200 power boost module.

| Selection matrix of the SITOP add-on modules for protection from... | Redundancy module | Selectivity module | Chopper module | Buffer module | DC UPS with capacitors | DC UPS with batteries |
|---|-------------------|--------------------|----------------|---------------|------------------------|-----------------------|
| Failure of a power supply unit                                      | •                 |                    |                |               |                        |                       |
| Overload at the output  |                   | •                  |                |               |                        |                       |
| Overvoltage at the output   |                   |                    | •              |               |                        |                       |
| Power failure up to the seconds range                               |                   |                    |                | •             | •                      | •                     |
| Power failure up to the minutes range                               |                   |                    |                |               | •                      | •                     |
| Power failure up to the hours range                                 |                   |                    |                |               |                        | •                     |



[Data sheet](#)

### Chopper module for protection against high reverse voltages

In applications with DC motors, critical reverse voltages can occur in braking mode. The SITOP CHO1400 chopper module limits this voltage by converting the regenerative energy into heat via internal braking resistors.

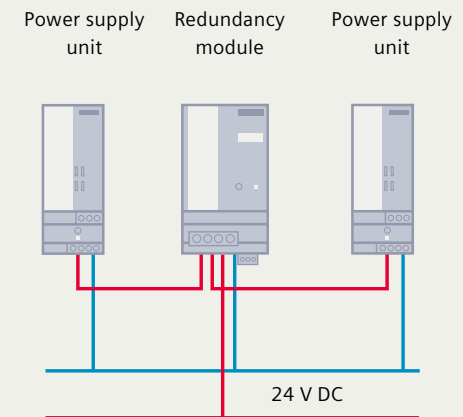


[Data sheet](#)

### Buffer module bridges brief power failures

Although power failures usually last only a fraction of a second, they can cause costly and time-consuming damage. In combination with the 24-V power supply units, the buffer module bridges short-duration voltage dips with its electrolyte capacitors.

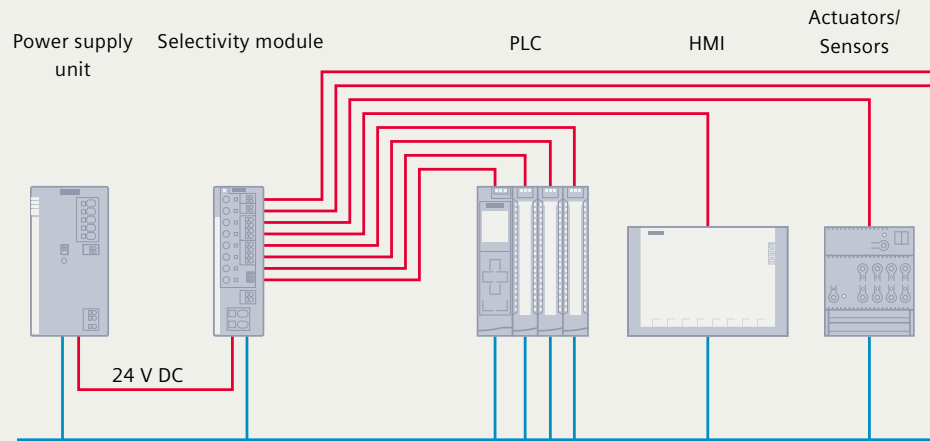
## Configuration with redundancy module



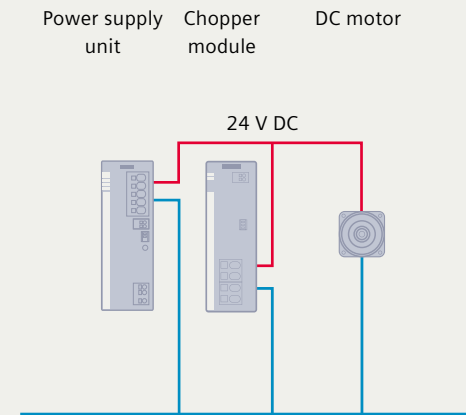
### Your benefits with the redundancy module:

- Highly secure DC supply due to a redundant design
- Reliable supply even when one power supply fails
- Compact redundancy modules for power supply units up to 48 V and 40 A
- 24-V/NEC Class 2 redundancy module limited to 100 W
- Decoupling of parallel-connected power supply units to enhance performance or of series-connected power supply units to increase voltage

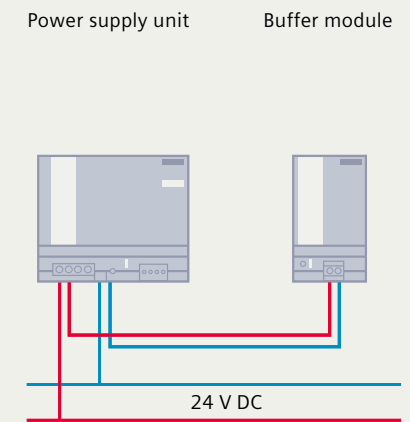
## Configuration with selectivity module



## Configuration with chopper module



## Configuration with buffer module



### Your benefits with the selectivity module:

- Protection against overloads and short circuits in the control circuit
- Reliable tripping, regardless of the line resistance
- Sequential connection reduces total inrush current
- Common signaling contact or evaluation of individual channels
- SEL1200: switch-off characteristic for standard protection and high starting currents, 48 V 4x 10 A version available
- SEL1400/PSE200U: power limiting to meet high protection requirements by stabilizing the 24 V
- SEL1600: switch-off characteristic with short-term power limitation and adjustable overload behavior
- SEL1200/1400: 4 or 8 outputs, each with information via the diagnostic interface: voltage, current, set threshold, reason for disconnection (if applicable)
- SEL1600: 4 outputs, each with diagnostics via the display or IO-Link: voltage, current, threshold, comprehensive statistics. The system can be expanded to up to 40 monitored outputs and 120 A total current
- PSE200U: 4 outputs with voltage measuring point for current ( $1 \text{ V} \triangleq 1 \text{ A}$ )

### Your benefits with the chopper module:

- Protection of the output of power supplies or selectivity modules against high reverse voltages
- Suitable for applications with a 24 V and 48 V supply voltage
- Diagnostics via an LED status display on the device or via a signaling contact or diagnostic interface
- Reduction of regenerative power to 1.0 kW and of regenerative energy down to 1.8 kW via integrated braking resistors
- Two chopper modules can connect in parallel to double the output
- Connection to the power supply unit via just two lines

### Your benefits with the buffer module:

- Inexpensive protection against power failure up to several seconds
- Support of power supply unit for temporarily increased power requirements
- High load current up to 40 A
- Connection to the power supply unit only via two lines

# SITOP 48 V supply – with add-ons for improved availability

Smaller cable cross-sections or a lower voltage drop on the line, smaller line losses and an improved voltage level at the consumer end – the 48 V supply voltage is beneficial, especially for applications with a higher power range or involving greater distances.

With 48 V power supply units, the lower current flow often helps achieve a slightly higher efficiency rating than with the 24 V versions. In electric motors, 48 V enables improved dynamics during acceleration. And because 48 V is below the 60 V DC level classed as non-hazardous to humans, there is no need for touch protection for the live components.

## 48 V supply



| Power supplies |   |  |                                       | Add-on modules   |  |
|----------------|---|--|---------------------------------------|--|--|
|                | Advanced                                      | Standard   | Special designs                       | Redundancy modules   | Selectivity module   |
| 1-phase        |   | <b>SITOP PSU6200</b><br>48 V/5 A and 10 A          | <b>SITOP PSU3600</b><br>3...52 V/10 A | <b>SITOP RED1200</b><br>10...58 V/20 A,<br>40 A and 80 A         | <b>SITOP SEL1200</b><br>48 V/4 x 10 A  |
| 3-phase        | <b>SITOP PSU8200</b><br>48 V/10 A and<br>20 A | <b>SITOP PSU6200</b><br>48 V/5 A,<br>10 A and 20 A |                                       | <b>Chopper module</b><br><b>SITOP CHO1400</b><br>24 V/48 V, 1 kW | <b>Power boost module</b><br><b>SITOP PBM1200</b><br>24 V/48 V,<br>20 A/40 A |

### Power supplies for different requirements

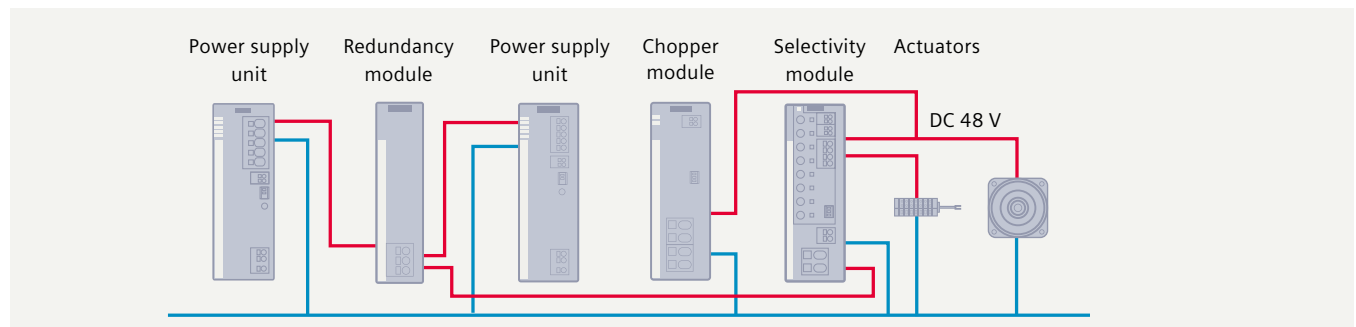
To reliably supply industrial 48 V applications, SITOP also offers single and 3-phase 48 V power supply units in various product lines.

### Redundant 48 V supply

Additional safety is assured by the SITOP RED1200 redundancy modules, which decouple power supplies with a rated output voltage of up to 48 V and ensure continued supply from the intact power supply unit in the event of a power supply unit outage.

### Selective disconnection

The SITOP SEL1200 48 V/4x 10 A selectivity module protects circuits with typical 48 V loads such as motors or solenoid valves. Reliable disconnection of the circuit in the event of an overload or short circuit prevents a voltage dip throughout the 48 V supply.



### Protection against high reverse voltages

DC motors are often used in 48 V applications. In braking mode, they can generate reverse voltages that are critical for the power supply unit output or the corresponding output of the selectivity module. The SITOP CHO1400 chopper module limits this voltage by converting the regenerative energy into heat via internal braking resistors.

### Uninterruptible power supply for 48 V

To also protect 48 V consumers against power failure, two 24 V power supplies with an uninterruptible power supply (DC UPS) can be connected in series via two redundancy modules. For switching details, see the Application Note on page 20:

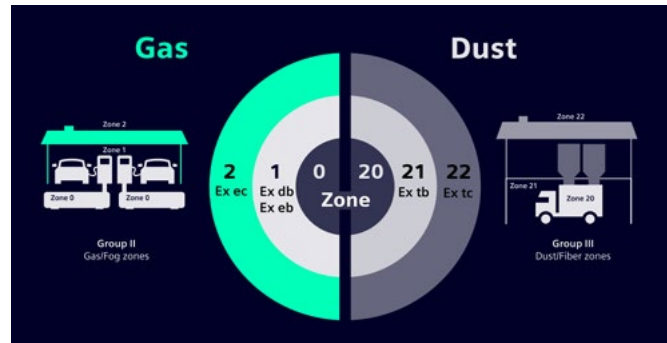
[Application note](#)

# SITOP devices with explosion protection – from the power supply to comprehensive 24 V protection

Whether caused by combustible substances, dust, gas, vapor, or mist: In particular working environments just a spark or a hot surface may be enough to trigger the most severe work accidents through an explosion and put human lives at risk.

For reasons of industrial safety, electronic devices in these environments must be appropriately designed and certified. That also applies to power supply units.

## Explosion-proof devices



### Safe 24 V power supply in an environment at risk of explosion

Many SITOP power supplies and add-on modules are also available in Ex versions for Zone 2, in which an explosive atmosphere may develop as a result of gases, vapors, or mist. To meet these requirements, PCBs in most SITOP devices come with a conformal coating for use in Ex zones. That means they meet ignition protection class EX ec (enhanced safety) for Zone 2, and are simultaneously more robust for use in harsh environments.

### Ex zones classified by frequency and duration of hazardous explosive atmosphere

Explosive zones are classified according to how often and how long a hazardous explosive atmosphere develops there. Zone 2 defines areas in which, under normal working operations, a hazardous explosive atmosphere resulting from a mixture of air and combustible gases, vapors, or mist is not expected at all, is expected only rarely, or only for a short period.

#### 1-phase power supplies

[SITOP PSU8200 Ex 24 V/40 A](#)

[SITOP PSU6200 Ex 24 V/5 A, 10 A, 20 A](#)

[LOGO!Power Ex 24 V/4 A](#)

#### 1-phase power supplies in SIMATIC design

[SIMATIC S7-1200 PM1207 DC 24 V/2,5 A](#)

[SIMATIC S7-1500 PM1507 DC 24 V/3 A, 8 A](#)

[SIMATIC ET 200SP PS 24 V/5 A, 10 A](#)

#### 3-phase power supplies

[SITOP PSU6200 Ex 24 V/5 A, 10 A, 20 A, 40 A](#)

#### Add-on modules

[Redundancy module SITOP RED1200 Ex 24/48 V/40 A](#)

[Selectivity module SITOP SEL1200 Ex 24 V/8 x 10 A](#)

[Selectivity module SITOP SEL1400 Ex 24 V/8 x 10 A](#)

[Buffer module SITOP BUF1200 Ex 24 V/40 A/300 ms](#)

#### Uninterruptible power supply with battery modules

[DC UPS module SITOP UPS1600 Ex 24 V/20 A with and w/o Ethernet/PROFINET interface](#)

[Battery modules SITOP BAT1600 Ex 24 V/3.2 Ah, 7 Ah lead](#)

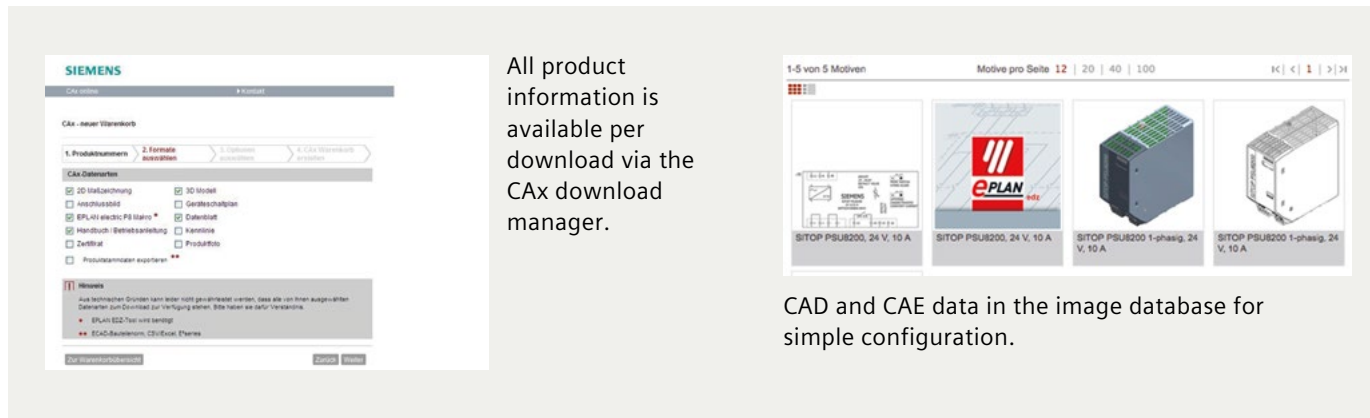
#### Uninterruptible power supply with capacitors

[DC UPS module SITOP UPS500 Ex 24 V/15 A/5 kW and expansion module UPS501 5 kW](#)

# Comprehensive support from planning to operation

No matter how many requirements a power supply must meet, SITOP always optimally supports your planning process – from product selection and mechanical and electrical design to project-specific plant documentation and engineering. With the TIA Selection Tool, you can select your power supply, add-on modules, and DC UPS faster and order it directly. In addition, you will automatically receive

the required CAD data and circuit diagram macros. And using TIA portal, you can even simply and reliably parameterize and diagnose the modular SITOP UPS8600 power supply system and the SITOP UPS1600 DC uninterruptible power supply.



All product information is available per download via the CAx download manager.

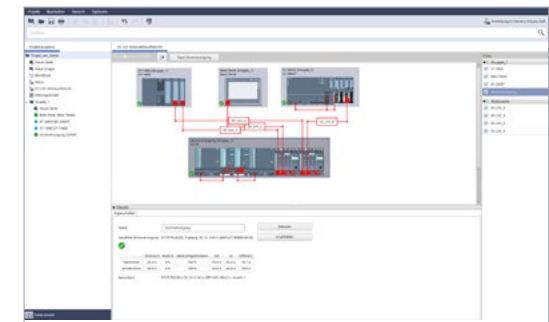
CAD and CAE data in the image database for simple configuration.

## Efficiency starts with selection

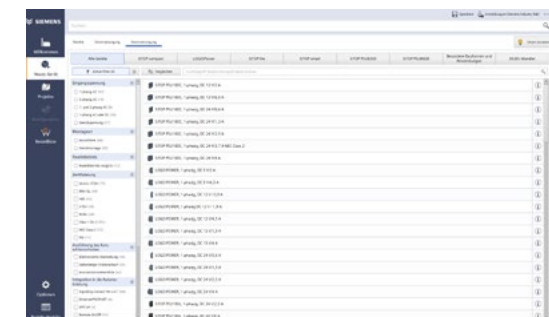
With just a few mouse clicks, the TIA Selection Tool guides you to the optimal power supply for your requirements. Simply enter the relevant parameters. If there are multiple solutions, an overview offers a comparison table containing several devices. Once you've opted for a power supply, you can easily select the appropriate redundancy, selectivity, and DC UPS modules. You can then export the resulting product configuration to various CAD, CAE, and engineering systems (like the TIA Portal) and continue to use it. With a single mouse click, you can transfer the selected products to the Industry Mall shopping cart and conveniently order them from there. The 24-V consumer view in the TIA Selection Tool helps you easily select the power supply for your project by automatically calculating the power requirements of the automation products to be supplied.

## Everything you need for planning

Additional information – including 3D data, circuit diagram macros according to IEC or ANSI, certificates, and operating instructions – are available at the click of a mouse. With the aid of the CAx Manager, you can download engineering data in the DXF, STEP, EPLAN, and eCl@ss advanced formats and apply it directly to your project engineering. Not only does this save you a significant amount of valuable engineering time, but you also benefit from the configurable manuals when creating custom project documentation using My Documentation Manager.



TIA Selection Tool: In the 24-V DC power consumer view, the necessary SITOP power supply can be easily selected for the chosen automation products.



TIA Selection Tool: Power supply selection based on technical specifications.



## Did you know that...

SITOP PSU8600 and SITOP UPS1600 (version with IE/PN interface) have integrated Web servers that they can use for commissioning and remote diagnostics?

[More about SITOP PSU8600](#)

[More about SITOP UOS1600](#)

### Convenient engineering in TIA Portal

You can easily perform the engineering tasks for the SITOP PSU8600 power supply system and the SITOP UPS1600 uninterruptible power supply via TIA Portal. Device selection and network connection are a simple matter of drag-and-drop or copy-and-paste. In addition, function blocks for SIMATIC S7-300, 400, 1200, and 1500 are available for integrating the power supply system and DC UPS into STEP 7 user programs. There are also tailor-made faceplates to visualize the operational and diagnostic data using SIMATIC operating and monitoring systems. All of this helps reduce engineering effort and saves costs.

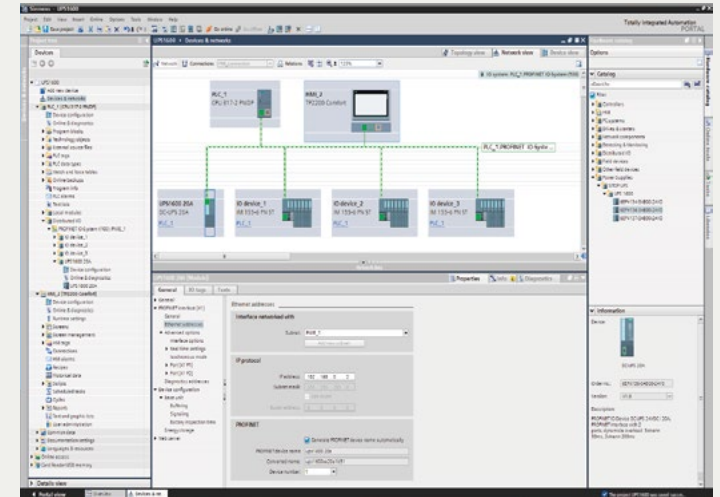
### Your advantages through system integration of SITOP UPS1600 and SITOP PSU8600

- Time and cost savings during configuration and operation
- Convenient engineering in TIA portal
- Quick product selection and network integration in PROFINET
- Comprehensive parameterization of devices
- Comprehensive diagnostic options
- Simple integration into STEP 7 user programs with function blocks for S7-300/400/1200/1500
- Fast integration into operation and monitoring with faceplates for SIMATIC panels and SIMATIC WinCC

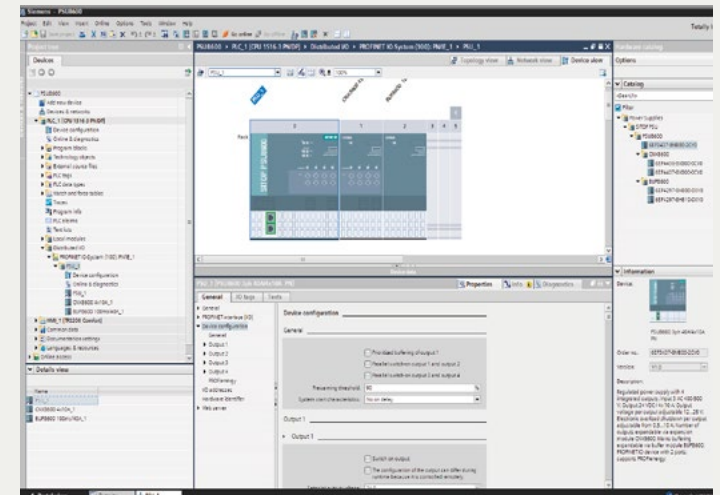


siemens.com/  
tia-selection-tool

[More about TIA Selection Tool](#)



Integrating the SITOP UPS1600 DC UPS into PROFINET is easy and fail-safe via TIA Portal.



Configuring and setting parameters for the PSU8600 power supply system in TIA Portal is both intuitive and convenient.

# SITOP Manager – the software for easy integration of SITOP PSU8600, UPS500, and UPS1600 in open systems

Optimal interoperability with different control systems: SITOP Manager – the SW tool for the SITOP PSU8600 power supply system and SITOP uninterruptible power supplies – is available free of charge.



## Did you know that...

you can use SITOP Manager to configure and diagnose uninterruptible SITOP power supplies on Microsoft Windows and SIMATIC Industrial OS?

### High performance for configuration

With the SITOP Manager software, all SITOP devices with an IE/PROFINET or USB interface can be parameterized and diagnosed via a PC with Microsoft Windows or SIMATIC Industrial OS operating systems – this is ideal, especially if plant configuration and programming isn't performed via TIA Portal or SIMATIC Step 7. With a user interface based on a Web browser, the application can also run on mobile terminals and automatically adapts the display size. With the user-friendly SITOP Manager software, it's easy to parameterize the SITOP PSU8600 power supply system and the SITOP uninterruptible power supplies – for example, to define output voltages and current thresholds or to safely shut down PCs in the event of a power failure.

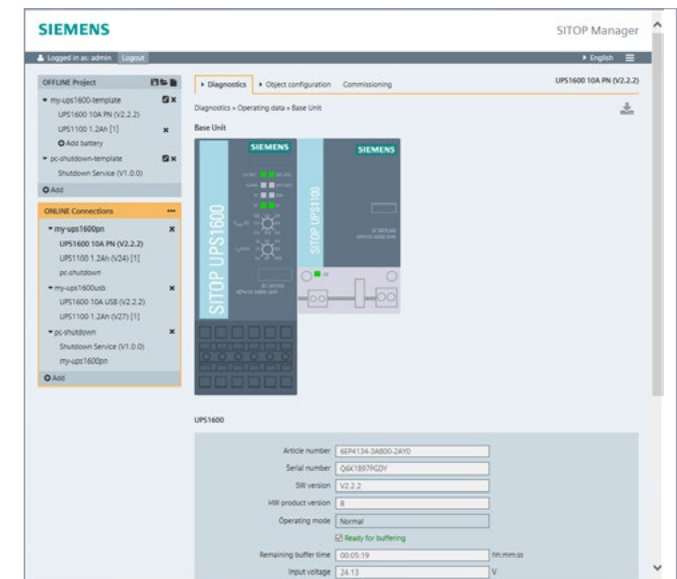
### Uncompromising when it comes to security

Communication between SITOP Manager and the connected power supplies is via the open, multi-vendor, Ethernet-based OPC UA communication standard. This standard meets extremely high security requirements for secure data transmission.



[siemens.com/  
download-smgr](https://www.siemens.com/download-smgr)

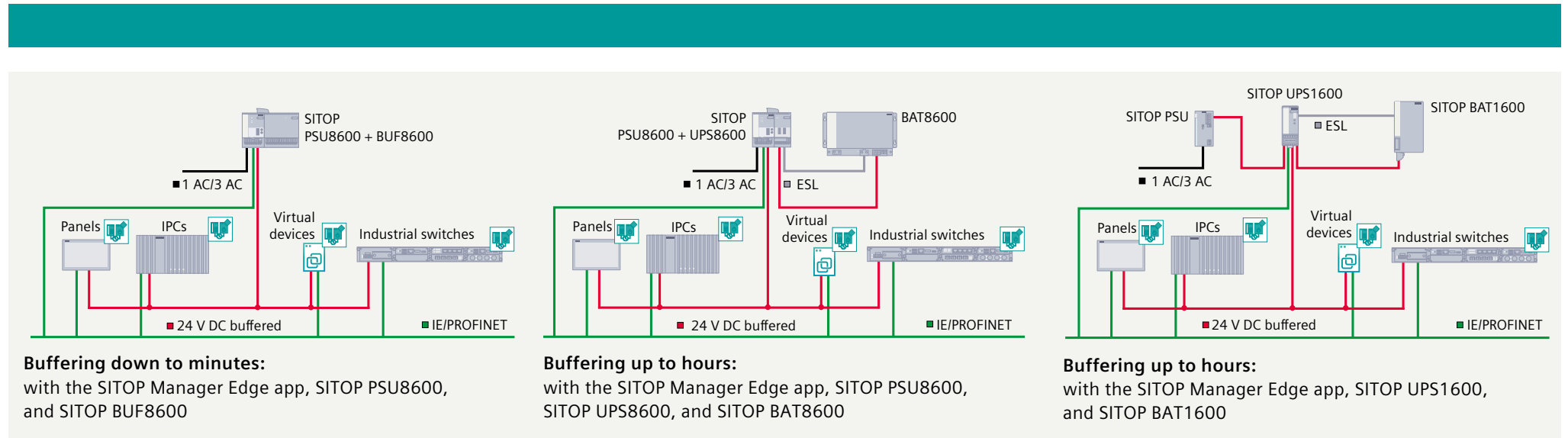
More about SITOP Manager in SIOS



The status of SITOP devices with an IE/PROFINET or USB interface can be conveniently accessed via SITOP Manager's online diagnostics. The image shows the operational data from SITOP UPS1600.

# SITOP Manager Edge app – SITOP Manager as an Industrial Edge app and with a SITOP 24 V DC buffer solution

Protection against damage and data loss for your Industrial Edge devices and apps in the event of a power failure: Combine SITOP Manager as an Industrial Edge app with a SITOP 24 V DC buffer solution.



## Protection of Edge devices and processes

With the SITOP Manager Edge app and a SITOP 24 V DC buffer solution, Industrial Edge devices can be protected in the event of primary-side power failures by shutting down the devices and installed apps in a controlled manner. The SITOP 24 V DC buffering solutions buffer the Industrial Edge devices for a period ranging from minutes to hours in the event of a power failure. With the SITOP Manager Edge app, a buffering event is recognized by the Industrial Edge device and the device and apps are duly shut down. This prevents damage to the Industrial Edge devices and their operating system as well as to the running Industrial Edge apps and their data and databases.

Once the input voltage and buffer readiness are recovered, the SITOP 24 V DC buffer solution enables the Industrial Edge devices and apps to start up properly. Downtimes and maintenance times are minimized.

## 24 V DC buffering solutions

The SITOP Manager Edge app can be combined with the following solutions for buffering power failures:


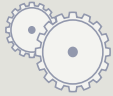
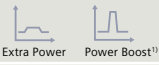

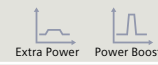
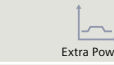
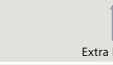


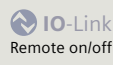
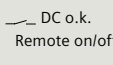
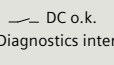
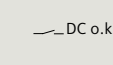










- **Buffering down to minutes:**  
SITOP PSU8600 power supply system with SITOP BUF8600 buffer modules

- **Buffering up to hours:**  
SITOP UPS1600 uninterruptible power supply with SITOP BAT1600 battery modules
- **Buffering up to hours:**  
SITOP PSU8600 power supply system with the SITOP UPS8600 UPS module and SITOP BAT8600 battery modules







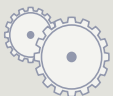


















SITOP Manager in the  
Industrial Edge marketplace

# SITOP – the right power supply for every application

| Selection matrix of the SITOP DIN rail power supply units according to performance data and range of functions                            |   |   | Advanced power supplies   |   |   | Standard power supplies   |   |
|---|---|---|---|---|---|---|---|
|   |   |   | SITOP PSU8600 – power supply system with PROFINET and OPC UA  | SITOP PSU8400 – the power supply with IO-Link that puts its values on display   | SITOP PSU8200 – the technology power supply for demanding solutions   | SITOP PSU6200 – the all-around power supply for a wide range of applications                    | SITOP smart – the powerful standard power supply  |
| <b>Input/output</b><br>                                  | Input   | AC/DC   | 1,3 ~   | 3 ~   | 1,2,3 ~ =   | 1,3 ~ =   | 1,3 ~   |
|   | Rated power up to approx.                     | P   | 960 W   | 960 W   | 960 W   | 960 W   | 960 W   |
|   | Rated output voltages                         | U   | 5–24 V DC   | 24 V DC   | 24/36/48 V DC   | 12/24/48 V DC   | 12/24 V DC  |
|   | Rated output currents (24 V)                  | I   | 20–40 A   | 20–40 A   | 5–40 A  | 1.3–40 A  | 2.5–40 A  |
| <b>Properties</b><br>                                    | Overload behavior                             | P <sub>max</sub>  |  Extra Power Power Boost <sup>1)</sup> |  Extra Power Power Boost <sup>1)</sup> |  Extra Power Power Boost |  Extra Power |  Extra Power |
|   | Energy efficiency                             |   | +++                                    | +++   | +++   | +++   | ++  |
|   | Automation integration                        |   |                                        |                                        |                          |              |              |
| <b>Safety, environment</b><br>                         | Explosion protection: ATEX, IECEx, CCC, or FM |       |   |   | •   | •   |   |
|   | Marineapproval: DNV or ABS                    |      | •   |   | •   | •   | •   |
|   | Ambient temperature range                     |      | –25...+60 °C  | –40...+70 °C  | –25...+70 °C  | –25...+70 °C<br>from 24 V/3,7 A:<br>–30...+70 °C  | –25...+70 °C  |
| <b>24-V power supply units expandable with ...</b><br> | Redundancy module                             |      | •   | •   | •   | •   | •   |
|   | Selectivity module                            |  I > | integrated  |   | •   | •   | •   |
|   | Buffer module                                 |  s   | integrated  |   | •   | •   | •   |
|   | DC UPS with Ultracaps                         |  min | integrated  |   | •   | •   | •   |
|   | DC UPS with batteries                         |  h   | integrated  |   | •   | •   | •   |

<sup>1)</sup> Power boost function for basic devices with one output

| Selection matrix of the SITOP DIN rail power supply units according to performance data and range of functions                            |   |  | Basic power supplies   | SIMATIC Design  | DC/DC converters  | Special designs   |  |
|---|---|--|--|---|---|---|--|
|   |   |  | SITOP PSU4200 – fresh Power for your basic applications<br> | LOGO!Power – the flat power supply for distribution boards<br> | SITOP in SIMATIC design – the ideal power supply for SIMATIC S7 and more<br> | Stable power supply despite fluctuating DC voltage<br> | Equipped for special functions and conditions<br> |
| <b>Input/output</b><br>                                  | Input   | AC/DC  | 1,3 ~  | 1 ~ =   | 1,3 ~ =   | =   | 1,3 ~ =  |
|   | Rated power up to approx.                     | P  | 480 W  | 100 W   | 240 W   | 480 W   | 960 W  |
|   | Rated output voltages                         | U  | 24 V DC  | 5/12/15/24 V DC   | 24 V DC   | 12/24 V DC  | 12/24/48/3 ... 52 V DC   |
|   | Rated output currents (24 V)                  | I  | 3–20 A   | 0.6–4.0 A   | 2–10 A  | 2–20 A  | 2.1–40 A   |
| <b>Properties</b><br>                                    | Overload behavior                             | P <sub>max</sub>  |  | <br>Extra Power on startup                                     | <br>S7-1500/ET 200SP: Extra Power  | <br>PSU400M: Extra Power                               |  |
|   | Energy efficiency                             |                   | ++   | ++  | +   | +++   | ++   |
|   | Automation integration                        |                   | — DC o.k.  |   | PM1207: diagnostic interface  | > 240 W: — DC o.k.  | in some cases — DC o.k.  |
| <b>Safety, environment</b><br>                         | Explosion protection: ATEX, IECEx, CCC, or FM |                  |  | •   | •   |   |  |
|   | Marineapproval: DNV or ABS                    |                 |  | •   | •   | •   | •  |
|   | Ambient temperature range                     |                 | –25...+70 °C   | –25...+70 °C  | –30 ... +70 °C  | –25...+70 °C  | –25...+70 °C   |
| <b>24-V power supply units expandable with ...</b><br> | Redundancy module                             |                 | •  | •   | •   | •   | •  |
|   | Selectivity module                            |  I >            | •  | •   | •   | •   | •  |
|   | Buffer module                                 |  s              | •  | BUF1200   | BUF1200   | BUF1200   | BUF1200  |
|   | DC UPS with Ultracaps                         |  min            | •  | •   | •   | •   | •  |
|   | DC UPS with batteries                         |  h              | •  | •   | •   | •   | •  |

# Selection table SITOP power supplies

| Input voltage  | Output current     | Advanced power supplies |                             |                       | Standard power supplies |                    | Basic power supplies |                    |                       | SIMATIC design     | SITOP DC/DC converter |
|--|--------------------|-------------------------|-----------------------------|-----------------------|-------------------------|--------------------|----------------------|--------------------|-----------------------|--------------------|-----------------------|
|  |                    | SITOP PSU8600           | SITOP PSU8400               | SITOP PSU8200         | SITOP PSU6200           | SITOP smart        | SITOP PSU4200        | LOGO!Power         | SITOP compact         |                    |                       |
| DC 24-V output voltage                                 |                    |                         |                             |                       |                         |                    |                      |                    |                       |                    |                       |
| 1-phase<br>120 V,<br>230 V AC                          | 0.6 A              |                         |                             |                       |                         |                    |                      | 6EP3330-6SB00-0AYO | 6EP1331-5BA00         |                    |                       |
|  | 1.3 A              |                         |                             |                       | 6EP3331-7SB00-0AXO      |                    |                      | 6EP3331-6SB00-0AYO | 6EP1331-5BA10         |                    |                       |
|  | 2 A                |                         |                             |                       |                         |                    |                      |                    |                       | 6ES7307-1BA01-0AA0 |                       |
|  | 2.5 A              |                         |                             |                       | 6EP3332-7SB00-0AXO      | 6EP1332-2BA20      |                      | 6EP3332-6SB00-0AYO | 6EP1332-5BA00         | 6EP1332-1SH71      | 6EP3332-0TA00-0AYO    |
|  | 3 A                |                         |                             |                       |                         |                    | 6EP3332-3SB00-0AXO   |                    |                       | 6EP1332-4BA00      |                       |
|  | 3.7 A              |                         |                             |                       | 6EP3333-7LB00-0AXO      |                    |                      |                    | 6EP1332-5BA20         |                    |                       |
|  | 4 A                |                         |                             |                       |                         |                    |                      | 6EP3333-6SB00-0AYO | 6EP1332-5BA10         |                    |                       |
|  | 5 A                |                         |                             | 6EP1333-3BA10         | 6EP3333-7SB00-0AXO      | 6EP1333-2BA20      | 6EP3333-3SB00-0AXO   |                    |                       | 6EP3333-4SB00-3AXO |                       |
|  |                    |                         |                             | 6EP3333-8SB00-0AYO    | 6EP3333-7SC00-0AXO      |                    |                      |                    |                       | 6EP3333-4SC00-3AXO |                       |
|  |                    |                         |                             |                       |                         |                    |                      |                    |                       | 6EP7133-6AB00-0BNO |                       |
|  | 6.25 A             |                         |                             |                       |                         |                    |                      |                    |                       |                    |                       |
|  | 8 A                |                         |                             |                       |                         |                    |                      |                    |                       | 6EP1333-4BA00      |                       |
|  | 10 A               |                         |                             | 6EP1334-3BA10         | 6EP3334-7SB00-3AXO      | 6EP1334-2BA20      | 6EP3334-3SB00-0AXO   |                    |                       | 6ES7307-1KA02-0AA0 |                       |
|  |                    |                         |                             | 6EP3334-8SB00-0AYO    | 6EP3334-7SC00-3AXO      | 6EP1334-2AA01-0AB0 |                      |                    |                       | 6EP7133-6AE00-0BNO |                       |
|  | 14.6 A             |                         |                             |                       |                         |                    |                      |                    |                       |                    |                       |
|  | 20 A               |                         |                             | 6EP1336-3BA10         | 6EP3336-7SB00-3AXO      | 6EP1336-2BA10      | 6EP3336-3SB00-0AXO   |                    |                       |                    |                       |
| 20 A/4 x 5 A   | 6EP3336-8MB00-2CYO |                         |                             |                       |                         |                    |                      |                    |                       |                    |                       |
| 40 A   |                    |                         | 6EP3337-8SB00-0AYO          | 6EP3337-7SB(C)00-3AXO |                         |                    |                      |                    |                       |                    |                       |
| 5 A  |                    |                         | 6EP1333-3BA10 <sup>1)</sup> | 6EP3433-7SB(C)00-0AXO | 6EP1433-2BA20           |                    |                      |                    |                       |                    |                       |
| 8 A  |                    |                         |                             |                       |                         |                    |                      |                    | 6ES7148-4PC00-0HA0    |                    |                       |
| 10 A   |                    |                         | 6EP1334-3BA10 <sup>1)</sup> | 6EP3434-7SB(C)00-3AXO | 6EP1434-2BA20           | 6EP3434-3SB00-0AXO |                      |                    |                       |                    |                       |
| 17 A   |                    |                         |                             |                       |                         |                    |                      |                    |                       |                    |                       |
| 20 A   |                    | 6EP3436-8SB00-4AYO      | 6EP3436-8SB00-0AYO          | 6EP3436-7SB(C)00-3AXO | 6EP1436-2BA10           | 6EP3436-3SB00-0AXO |                      |                    |                       |                    |                       |
|  | 6EP3436-8SB00-2AYO |                         |                             |                       |                         |                    |                      |                    |                       |                    |                       |
| 20 A/4 x 5 A   | 6EP3436-8MB00-2CYO |                         |                             |                       |                         |                    |                      |                    |                       |                    |                       |
| 30 A   |                    |                         |                             |                       |                         |                    |                      |                    |                       |                    |                       |
| 40 A   | 6EP3437-8SB00-2AYO | 6EP3437-8SB00-4AYO      | 6EP3437-8SB00-0AYO          | 6EP3437-7SB(C)00-3AXO | 6EP1437-2BA20           |                    |                      |                    |                       |                    |                       |
| 40 A/4 x 10 A  | 6EP3437-8MB00-2CYO |                         |                             |                       |                         |                    |                      |                    |                       |                    |                       |
| 12 V DC  | 4 A                |                         |                             |                       |                         |                    |                      |                    |                       | 6EP3133-0TA10-0AYO |                       |
| 24–110 V DC  | 2 A                |                         |                             |                       |                         |                    |                      |                    | 6ES7305-1BA80-0AA0    |                    |                       |
| 24 V DC  | 5 A                |                         |                             |                       |                         |                    |                      |                    |                       | 6EP3133-0TA00-0AYO |                       |
|  | 10 A               |                         |                             |                       |                         |                    |                      |                    |                       | 6EP3134-0TA00-0AYO |                       |
| 48 V DC  | 3.5 A              |                         |                             |                       |                         |                    |                      |                    |                       | 6EP3233-0TA10-0AYO |                       |
|  | 5 A                |                         |                             |                       |                         |                    |                      |                    |                       | 6EP3233-0TA00-0AYO |                       |
|  | 10 A               |                         |                             |                       |                         |                    |                      |                    |                       | 6EP3234-0TA00-0AYO |                       |
| 24–240 V DC<br>(PSU3400)                               | 0.6 A              |                         |                             |                       |                         |                    | 6EP3330-6SB00-0AYO   | 6EP1331-5BA00      |                       |                    |                       |
|  | 1.3 A              |                         |                             |                       | 6EP3331-7SB00-0AXO      |                    | 6EP3331-6SB00-0AYO   | 6EP1331-5BA10      |                       |                    |                       |
| 110–300 V DC<br>(LOGO!Power)                           | 2.5 A              |                         |                             |                       | 6EP3332-7SB00-0AXO      |                    | 6EP3332-6SB00-0AYO   | 6EP1332-5BA00      |                       | 6EP3332-0TA00-0AYO |                       |
|  | 3.7 A              |                         |                             |                       | 6EP3333-7LB00-0AXO      |                    |                      | 6EP1332-5BA20      |                       |                    |                       |
| 110–240 V DC /<br>120–240 V DC<br>(PSU6200,<br>PM1207) | 4 A                |                         |                             |                       |                         |                    | 6EP3333-6SB00-0AYO   | 6EP1332-5BA10      |                       |                    |                       |
|  | 5 A                |                         |                             |                       | 6EP3333-7SB00-0AXO      |                    |                      |                    | 6EP3333-4SB(C)00-3AXO |                    |                       |
|  | 10 A               |                         |                             |                       | 6EP3334-7SB00-3AXO      |                    |                      |                    |                       |                    |                       |
|  | 20 A               |                         |                             |                       | 6EP3336-7SB00-3AXO      |                    |                      |                    |                       |                    |                       |
| 110–220 V DC   | 20 A/4 x 5 A       | 6EP3336-8MB00-2CYO      |                             |                       |                         |                    |                      |                    |                       |                    |                       |
| 88–350 V DC  | 20 A               |                         |                             | 6EP1336-3BA10         |                         |                    |                      |                    |                       |                    |                       |
| 600 V DC   | 20 A               |                         |                             |                       |                         |                    |                      |                    |                       | 6EP1536-3AA00      |                       |

<sup>1)</sup> Connection to two phases 230–500 V AC – sheet 24/25, SITOP PSU200M 1-/2-phase  
Gray: more information in the Industry Mall

| Input voltage                                 | Output current                           | Special designs                     |
|---|--|-------------------------------------|
| DC 24-V output voltage                        |  |                                     |
| 1-phase<br>120 V,<br>230 V AC                 | 0.6 A                                    |                                     |
|   | 1.3 A                                    |                                     |
|   | 2 A                                      | 6EP1331-1LD01<br>6EP3323-0SA00-0BY0 |
|   | 2.5 A                                    |                                     |
|   | 3 A                                      |                                     |
|   | 3.7 A                                    |                                     |
|   | 4 A                                      |                                     |
|   | 5 A                                      |                                     |
|   |  | 6EP1333-7CA10<br>6EP3343-0SA00-0AY0 |
|   | 6.25 A                                   | 6EP1333-1LD01                       |
|   | 8 A                                      | 6EP1334-7CA10                       |
|   | 10 A                                     |                                     |
|   |  | 6EP3343-0SA00-0AY0<br>6EP1334-1LD01 |
|   | 14.6 A                                   | 6EP1334-1LD01                       |
|   | 20 A                                     |                                     |
|   | 20 A/4 x 5 A                             |                                     |
| 40 A  |  |                                     |
| 3-phase<br>400–500 V AC                       | 5 A                                      | 6EP1433-0AA00                       |
|   | 8 A                                      | 6ES7148-4PC00-0HAA0                 |
|   | 10 A                                     |                                     |
|   | 17 A                                     | 6EP3436-8UB00-0AY0                  |
|   | 20 A                                     |                                     |
|   | 20 A/4 x 5 A                             |                                     |
|   | 6EP3437-8UB00-0AY0<br>6EP3437-8UB00-0AY0 |                                     |
| 30 A  |  |                                     |
| 40 A  |  |                                     |
| 40 A/4 x 10 A                                 |  |                                     |
| 12 V DC                                       | 4 A                                      |                                     |
| 24–110 V DC                                   | 2 A                                      |                                     |
| 24 V DC                                       | 5 A                                      |                                     |
|   | 10 A                                     |                                     |
| 48 V DC                                       | 3.5 A                                    |                                     |
|   | 5 A                                      |                                     |
| 24–240 V DC (PSU3400)                         | 0.6 A                                    |                                     |
|   | 1.3 A                                    |                                     |
| 110–300 V DC (LOGO!Power)                     | 2.5 A                                    |                                     |
|   | 3.7 A                                    |                                     |
| 110–240 V DC / 120–240 V DC (PSU6200, PM1207) | 4 A                                      |                                     |
|   | 5 A                                      |                                     |
|   | 10 A                                     |                                     |
| 110–220 V DC                                  | 20 A                                     |                                     |
|   | 20 A/4 x 5 A                             |                                     |
| 88–350 V DC                                   | 20 A                                     |                                     |
| 600 V DC                                      | 20 A                                     |                                     |

| Input voltage              | Output current      | Advanced power supplies |  | Standard power supplies |  | Basic power supplies |                    | SITOP DC/DC converter                    | Special designs and applications |
|----------------------------|---------------------|-------------------------|--|-------------------------|--|----------------------|--------------------|--|----------------------------------|
|                            |                     | SITOP PSU8600           | SITOP PSU8200                            | SITOP PSU6200           | SITOP smart                              | LOGO!Power           | SITOP compact      |  |                                  |
| Output voltage             |                     |                         |  |                         |  |                      |                    |  |                                  |
| 5. 12. 15. 48. etc... V DC |                     |                         |  |                         |  |                      |                    |  |                                  |
| 1-phase<br>120 V, 230 V AC | 4–28 V/<br>4 x 5 A  |                         | 6EP3336-8SB00-2CY0                       |                         |  |                      |                    |  |                                  |
|                            | 5 V/3 A             |                         |  |                         |  |                      |                    |  |                                  |
|                            | 5 V/6.3 A           |                         |  |                         |  |                      | 6EP3310-6SB00-0AY0 |  |                                  |
|                            | 12 V/0.9 A          |                         |  |                         |  |                      | 6EP3311-6SB00-0AY0 |  |                                  |
|                            | 12 V/1.9 A          |                         |  |                         |  |                      | 6EP3320-6SB00-0AY0 |  |                                  |
|                            | 12 V/2.0 A          |                         |  |                         | 6EP3321-7SB00-0AX0                       |                      | 6EP3321-6SB00-0AY0 | 6EP1321-5BA00                            |                                  |
|                            | 12 V/3.0 A          |                         |  |                         |  |                      |                    |  | 6EP1321-1LD01                    |
|                            | 12 V/4.5 A          |                         |  |                         |  |                      | 6EP3322-6SB00-0AY0 |  |                                  |
|                            | 12 V/6.5 A          |                         |  |                         |  |                      |                    | 6EP1322-5BA10                            |                                  |
|                            | 12 V/7 A            |                         |  |                         | 6EP3323-7SB00-0AX0                       | 6EP1322-2BA00        |                    |  |                                  |
|                            | 12 V/8.5 A          |                         |  |                         |  |                      |                    |  | 6EP1322-1LD01                    |
|                            | 12 V/12 A           |                         |  |                         | 6EP3324-7SB00-3AX0                       |                      |                    |  |                                  |
|                            | 12 V/14 A           |                         |  |                         |  | 6EP1323-2BA00        |                    |  |                                  |
|                            | 15 V/1.9 A          |                         |  |                         |  |                      | 6EP3321-6SB10-0AY0 |  |                                  |
|                            | 15 V/4 A            |                         |  |                         |  |                      | 6EP3322-6SB10-0AY0 |  |                                  |
|                            | 48 V/5 A            |                         |  |                         | 6EP3344-7SB00-3AX0<br>6EP3346-7SB00-3AX0 |                      |                    |  | 6EP3344-0SB00-0AY0               |
| 48 V/10 A                  |                     |                         |  |                         |  |                      |                    |  |                                  |
| 24 V DC                    | 3–52 V/<br>2–10 A   |                         |  |                         |  |                      |                    |  | 6EP3343-0SA00-0AY0               |
|                            | 2 x 15 V/<br>3.5 A  |                         |  |                         |  |                      |                    |  | 6EP3323-0SA00-0BY0               |
| 24 V DC                    | 12 V/8 A            |                         |  |                         |  |                      |                    | 6EP3123-0TA00-0AY0<br>6EP3124-0TA00-0AY0 |                                  |
|                            | 12 V/15 A           |                         |  |                         |  |                      |                    |  |                                  |
| 3-phase<br>400–500 V AC    | 4–28 V/20 A         |                         | 6EP3436-8SB00-2CY0                       |                         |  |                      |                    |  |                                  |
|                            | 4–28 V/<br>4 x 5 A  |                         | 6EP3436-8MB00-2CY0                       |                         |  |                      |                    |  |                                  |
|                            | 4–28 V/<br>40 A     |                         | 6EP3437-8SB00-2CY0                       |                         |  |                      |                    |  |                                  |
|                            | 4–28 V/<br>4 x 10 A |                         | 6EP3437-8MB00-2CY0<br>6EP3437-8MB10-2CY0 |                         |  |                      |                    |  |                                  |
|                            | 12 V/20 A           |                         |  |                         |  |                      |                    |  | 6EP3424-8UB00-0AY0               |
|                            | 36 V/13 A           |                         |  | 6EP3446-8SB10-0AY0      |  |                      |                    |  |                                  |
|                            | 48 V/5 A            |                         |  |                         | 6EP3444-7SB00-3AX0                       |                      |                    |  |                                  |
|                            | 48 V/10 A           |                         |  | 6EP3446-8SB00-0AY0      | 6EP3446-7SB00-3AX0                       |                      |                    |  |                                  |
|                            | 48 V/20 A           |                         |  | 6EP3447-8SB00-0AY0      | 6EP3447-7SB00-3AX0                       |                      |                    |  |                                  |

# SITOP PSU8600 advanced power supplies

The power supply system for digitalization and industry 4.0



| Technical data                           | SITOP PSU8600 1- and 2-phase <sup>1)</sup> , basic unit, 4 outputs  | SITOP PSU8600 3-phase basic unit, 1 output   |  | SITOP PSU8600 3-phase basic unit, 4 outputs                            | SITOP PSU8600 3-phase basic unit, 4 outputs                             |
|--|---|--|--|--|---|
| Output voltage/current, type             | 24 V/20 A/4x5 A, PSU8600  | 24 V/20 A, PSU8600   | 24 V/40 A, PSU8600                                       | 24 V/20 A/4x5 A, PSU8600   | 24 V/40 A/4x10 A, PSU8600   |
| Article No. with PROFINET interface      | 6EP3336-8MB00-2CY0  | 6EP3436-8SB00-2AY0   | 6EP3437-8SB00-2AY0                                       | 6EP3436-8MB00-2CY0   | 6EP3437-8MB00-2CY0  |
| Article No. with EtherNet/IP interface   |   |  |  |  | 6EP3437-8MB10-2CY0  |
| Rated input voltage                      | 100–240 V AC, 110–220 V DC  | 400–500 V 3 AC   | 400–500 V 3 AC   | 400–500 V 3 AC   | 400–500 V 3 AC  |
| – Range                                  | 85...275 V AC, 93...275 V DC  | 320...575 V 3 AC   | 320...575 V 3 AC   | 320...575 V 3 AC   | 320...575 V 3 AC  |
| Mains buffering                          | > 20 ms (at 100 V), extendable via buffer module or UPS module  | > 15 ms (at 400 V), extendable via buffer modules and UPS module   |  |  |   |
| Rated line frequency                     | 50/60 Hz  | 50/60 Hz   | 50/60 Hz   | 50/60 Hz   | 50/60 Hz  |
| Rated input current                      | 5.4–2.4 A, 4.8–2.4 A  | 1.4–1.1 A  | 2.75–2.2 A   | 1.4–1.1 A  | 2.75–2.2 A  |
| – Inrush current                         | < 15 A  | < 14 A   | < 14 A   | < 14 A   | < 14 A  |
| – Recommended protection. See also FAQ   | 10–32 A character C or time-lag fuses   | 6–16 A charact. C 3-ph. coupled or 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10  |  |  |   |
| Rated output voltage                     | 24 V DC   | 24 V DC  | 24 V DC  | 24 V DC  | 24 V DC   |
| – Tolerance                              | ± 3%  | ± 3%   | ± 3%   | ± 3%   | ± 3%  |
| – Setting range                          | 4...28 V DC   | 4...28 V DC  | 4...28 V DC  | 4...28 V DC  | 4...28 V DC   |
| – Rated output current                   | 20 A, 4 outputs each with 5 A, number expandable via CNX modules  | 20 A, one output, number can be increased via CNX module   | 40 A, one output, number can be increased via CNX module | 20 A, four outputs at 5 A each, number can be increased via CNX module | 40 A, four outputs at 10 A each, number can be increased via CNX module |
| – Overload behavior (Extra Power)        | 30 A for 5 s/min  | 30 A for 5 s/min   | 60 A for 5 s/min   | 30 A for 5 s/min   | 60 A for 5 s/min  |
| – Derating                               | –   | From +50 °C (2.5%/K); no derating in connection with expansion module and total load of basic devices' output up to 240 W (20-A devices) or up to 480 W (40-A devices) |  |  |   |
| Switching threshold adjustment range     | 0.5...5 A   | 2...20 A   | 4...40 A   | 0.5...5 A  | 0.5...10 A  |
| Shutdown behavior per output             | Load current 101...149 % of the setting: shutdown after 5 s; load current >150 % of the setting: Current limitation and shutdown after 200 ms |  |  |  |   |
| Efficiency at rated values, approx.      | 92%   | 93%  | 94%  | 93%  | 94%   |
| Signaling contact "DC o. k."             | Yes   | Yes  | Yes  | Yes  | Yes   |
| Interface                                | Industrial Ethernet/PROFINET with 2 Ports, except for 6EP3437-8MB10-2CY0: EtherNet/IP with 2 Ports  |  |  |  |   |
| Parallel switching                       | Yes, output 1 with 2 or 3 with 4  | Yes  | Yes  | Yes, output 1 with 2 or 3 with 4                                       |   |
| EMF suppression (EN 55022)               | Class B   | Class B  | Class B  | Class B  | Class B   |
| Line harmonics limitation (EN 61000-3-2) | Yes   | Yes  | Yes  | Yes  | Yes   |
| Degree of protection (EN 60529)          | IP 20   | IP20   | IP20   | IP20   | IP20  |
| Ambient temperature                      | –25...+60 °C  | –25...+60 °C   | –25...+60 °C   | –25...+60 °C   | –25...+60 °C  |
| Dimensions (W x H x D) in mm             | 125 x 125 x 150   | 80 x 125 x 150   | 125 x 125 x 150  | 100 x 125 x 150  | 125 x 125 x 150   |
| Weight approx.                           | 2.65 kg   | 1.8 kg   | 2.65 kg  | 2.0 kg   | 2.65 kg   |
| Certification                            | CE, CB, cULus, cCSAus, BIS, SEMI F47, RCM, DNV, ABS   | CE, CB, cULus, cCSAus, BIS, RCM, DNV, ABS, SEMI F47, IRAM (except for 6EP3437-8MB10-2CY0)  |  |  |   |
| System expandability                     | Up to 4 expansion modules (CNX8600) and up to 2 buffer components (BUF8600, UPS8600)  |  |  |  |   |

<sup>1)</sup> 2-phase connection to 240 V, e.g. in North America

Specifications at rated input voltage and ambient temperature at +25 °C (unless otherwise specified)

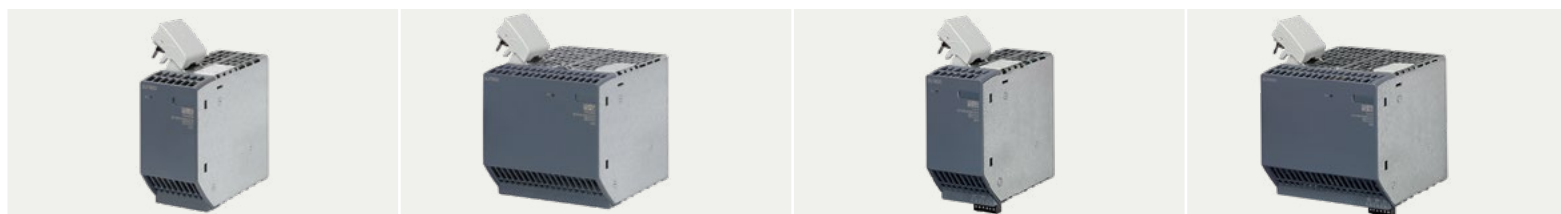


| Technical data                         | Expansion module  |                                    |                                    |
|--|---|------------------------------------|------------------------------------|
| Output current, typ                    | 4 x 5 A, CNX8600  | 4 x 10 A, CNX8600                  | 8 x 2.5 A, CNX8600                 |
| Article No.                            | <a href="#">6EP4436-8XB00-0CY0</a>  | <a href="#">6EP4437-8XB00-0CY0</a> | <a href="#">6EP4436-8XB00-0DY0</a> |
| Product/function description           | Expansion module for PSU8600 basic devices for distribution of the direct current to other load circuits and monitoring for overload; selective switch-off of defective circuits, switching threshold individually configurable; a total of four modules can be used in a group of systems; data and power are transmitted via the System Clip Link connector |                                    |                                    |
| Rated output voltage                   | 24 V DC   | 24 V DC                            | 24 V DC                            |
| – Tolerance                            | ± 3 %   | ± 3 %                              | ± 3 %                              |
| – Setting range                        | 4...28 V DC   | 4...28 V DC                        | 4...28 V DC                        |
| Rated output current                   | 20 A/4 outputs of 5 A each  | 40 A/4 outputs of 10 A each        | 20 A/8 outputs of 2.5 A each       |
|  | Comment: The max. output capacity of the overall PSU8600 system cannot be increased via expansion modules   |                                    |                                    |
| – Switching threshold adjustment range | 0.5...5 A   | 0.5...10 A                         | 0.5...2.5 A                        |
| – Shutdown behavior per output         | Load current 101...149 % of the setting: shutdown after 5 s; load current >150 % of the setting: Current limitation and shutdown after 200 ms   |                                    |                                    |
| Degree of protection (EN 60529)        | IP 20   | IP 20                              | IP 20                              |
| Ambient temperature                    | –25...+60 °C  | –25...+60 °C                       | –25...+60 °C                       |
| Dimensions (W x H x D) in mm           | 60 x 125 x 150  | 60 x 125 x 150                     | 100 x 125 x 150                    |
| Weight approx.                         | 1.15 kg   | 1.15 kg                            | 1.29 kg                            |
| Certification                          | CE, cULus, CB, cCSAus, RCM, DNV, ABS, NEC Class 2 for 6EP4436-8XB00-0DY0 only   |                                    |                                    |

Specifications at rated input voltage and ambient temperature at +25 °C (unless otherwise specified)

# SITOP PSU8600 advanced power supplies

The power supply system for digitalization and industry 4.0



| Technical data                            | Buffer module  |                                    |   |                                    |
|---|--|------------------------------------|---|------------------------------------|
|   | 100 ms/40 A, BUF8600   | 300 ms/40 A, BUF8600               | 4 s/40 A, BUF8600   | 10 s/40 A, BUF8600                 |
| Article No.                               | <a href="#">6EP4297-8HB00-OXY0</a>   | <a href="#">6EP4297-8HB10-OXY0</a> | <a href="#">6EP4293-8HB00-OXY0</a>  | <a href="#">6EP4295-8HB00-OXY0</a> |
| Product/function description              | Expansion module for PSU8600 basic devices to extend buffering time during power failures. A total of two buffer components (BUF8600, UPS8600) can be used in a group of systems. Data and power are transmitted via the System Clip Link connector. |                                    |   |                                    |
| Internal energy storage                   | Electrolytic capacitors  |                                    | Double-layer capacitors (Ultracaps)   |                                    |
| Buffer time with 24 V DC and load current |  |                                    |   |                                    |
| 5 A                                       | 800 ms   | 2,4 s                              | 40 s  | 80 s                               |
| 10 A                                      | 400 ms   | 1,2 s                              | 20 s  | 40 s                               |
| 20 A                                      | 200 ms   | 600 ms                             | 10 s  | 20 s                               |
| 40 A                                      | 100 ms   | 300 ms                             | 4 s   | 10 s                               |
| Typical charging time                     | 19 s   | 54 s                               | 5 min   | 10 min                             |
| Max. power during buffer operation        | 60 A for 5 s/min   | 60 A for 5 s/min                   | 40 A  | 60 A for 5 s/min                   |
| Status messages via 3-color LED           | Normal operation, state of charge, buffer operation, error   |                                    | Normal operation, state of charge, buffer operation, error  |                                    |
| Status messages via signal contact        | -  |                                    | State of charge > x %, buffer operation   |                                    |
| Status messages via PROFINET (basic unit) | Normal operation, state of charge, buffer operation, error   |                                    | Normal operation, state of charge, buffer operation, error  |                                    |
| Additional functions                      | -  |                                    | Remote on/off contact for deactivating buffering, e.g., when shutting down the plant to prevent unnecessary discharge |                                    |
| Degree of protection (EN 60529)           | IP 20  | IP 20                              | IP 20   | IP 20                              |
| Ambient temperature                       | -25...+60 °C   | -25...+60 °C                       | -25...+60 °C  | -25...+60 °C                       |
| Dimensions (W x H x D) in mm              | 60 x 125 x 150   | 125 x 125 x 150                    | 60 x 125 x 150  | 125 x 125 x 150                    |
| Weight approx.                            | 1.33 kg  | 2.26 kg                            | 1.25 kg   | 1.95 kg                            |
| Certification                             | CE, CB, cULus, cCSAus, RCM, DNV, ABS   |                                    | CE, CB, cULus, cCSAus, SEMI F47, RCM, DNV, ABS  |                                    |

Specifications at rated input voltage and ambient temperature at +25 °C (unless otherwise specified)



| Technical data                              | UPS module   |
|---|--|
| Typ   | UPS8600  |
| Article No.                                 | 6EP4197-8AB00-OXYO   |
| Product/function description                | Expansion module for PSU8600 basic devices to bridge power failures with BAT8600 external battery modules. A total of two buffer components (BUF8600, UPS8600) can be used in a group of systems. Data and power are transmitted via the System Clip Link connector. |
| External energy storage                     | Battery module BAT8600   |
| Buffer output                               | 960 W  |
| Charge power                                | 120 W, 60 W (switchable)   |
| Status messages via 3-color LED             | Normal operation, battery status, buffer operation, error  |
| Status messages via signal contact          | State of charge > x%, buffer operation, battery circuit error  |
| Status messages via I/PROFINET (basic unit) | Normal operation, battery status, buffer operation, error  |
| Additional functions                        | Maximum buffer time, remote ON/OFF, start from battery   |
| Degree of protection (EN 60529)             | IP 20  |
| Ambient temperature                         | -25...+70 °C   |
| Installation                                | DIN rail   |
| Dimensions (B x H x T) in mm                | 60 x 125 x 150   |
| Weight approx.                              | 1.2 kg   |
| Certification                               | CE, CB, cULus, cCSAus, RCM, DNV, ABS   |



| Technical data                        | Battery module   |                                      |
|---------------------------------------|--|--------------------------------------|
| Typ                                   | BAT8600 Pb   | BAT8600 LiFePO4                      |
| Article No.                           | 6EP4145-8GB00-OXYO   | 6EP4143-8JB00-OXYO                   |
| Product/function description          | External energy storage device for UPS module UPS8600. Connection to the UPS module via plus and minus lines for power transmission as well as via the "Energy Storage Link" for data transmission. The Energy Storage Link enables diagnosis and temperature-controlled charging for maximum battery service life. Up to five identical battery modules can be connected to one UPS module. |                                      |
| Battery/storage technology            | Lead (Pb)  | Lithium iron phosphate (LiFePO4)     |
| Energy content                        | 380 Wh   | 358 Wh                               |
| Rated voltage                         | 48 V DC  | 48 V DC                              |
| Voltage range                         | 42-58 V  | 42-58 V                              |
| Status messages via 3-color LED       | State of charge, battery test/capacity test, battery replacement, overtemperature, error   |                                      |
| Overload and short-circuit protection | Blade fuse 40 A/58 V   | Blade fuse 40 A/58 V                 |
| Parallel switching                    | yes, up to five (identical) units  | yes, up to five (identical) units    |
| Degree of protection (EN 60529)       | IP 20  | IP 20                                |
| Ambient temperature                   | -10...+50 °C   | -10...+50 °C                         |
| Installation                          | Wall mounting  | Wall mounting                        |
| Dimensions (B x H x T) in mm          | 322 x 187 x 110  | 322 x 187 x 110                      |
| Weight approx.                        | 13.5 kg  | 7.1 kg                               |
| Certification                         | CE, CB, cULus, UR, cCSAus, RCM, DNV, ABS   | CE, CB, cULus, cCSAus, RCM, DNV, ABS |



| System output capacity  | Buffer times <sup>1)</sup> |                    |
|-------------------------|----------------------------|--------------------|
|                         | 120 W                      | 2 h 4 min          |
| 240 W                   | 57 min                     | 1 h 23 min         |
| 480 W                   | 25 min                     | 42 min             |
| 720 W                   | 14 min                     | 28 min             |
| 960 W                   | 10 min                     | 21 min             |
| Charging capacity       | Charging times             |                    |
| 120 W/60 W (switchable) | 2 h 45 min (120 W)         | 3 h 30 min (120 W) |
| Ambient temperature     | Service life <sup>2)</sup> |                    |
| + 20 °C                 | 4 years                    | 13 years           |
| + 30 °C                 | 2 years                    | 8 years            |
| + 40 °C                 | 1 year                     | 4 years            |
| + 50 °C                 | 0.5 years                  | 2 years            |

1) Typical buffer times for a new fully-charged battery module at 25° C

2) Typical end of service life according to EUROBAT: reduction to 80% of original capacity

Specifications at rated input voltage and ambient temperature at +25 °C (unless otherwise specified)

# SITOP PSU8400 advanced power supplies

The power supply with IO-Link that puts its values on display

|   | NEW   | NEW   |
|---|---|---|
|   |                                       |                                      |
| Technical data  | SITOP PSU8400 3-phase   |   |
| Output voltage/current, type  | 24 V/20 A, PSU8400  | 24 V/40 A, PSU8400  |
| Article No.   | 6EP3436-8SB00-4AY0  | 6EP3437-8SB00-4AY0  |
| Rated input voltage   | 400-500 V 3 AC/500-550 V DC   | 400-500 V 3 AC/500-550 V DC   |
| – Range   | 323...576 V 3 AC/450...600 V DC   | 323...576 V 3 AC/450...600 V DC   |
| Mains buffering   | > 30 ms (at 400 V)  | > 30 ms (at 400 V)  |
| Rated line frequency  | 50/60 Hz  | 50/60 Hz  |
| Rated input current   | 0.9/0.7 A   | 1.5/1.2 A   |
| – Inrush current <sup>1)</sup>  | < 3 A   | < 5 A   |
| – Recommended miniature circuit breaker   | 4-16 A charact. C 3-ph. coupled or 3RV2011-1EA10 or 3RV2711-1ED10   | 4-16 A charact. C 3-ph. coupled or 3RV2011-1EA10 or 3RV2711-1ED10   |
| Rated output voltage  | 24 V DC   | 24 V DC   |
| Tolerance   | ± 3%  | ± 3%  |
| Setting range   | 22...28 V DC  | 22...28 V DC  |
| Rated output current  | 20 A  | 40 A  |
| – Permanently up to +45°C   | 24 A  | 48 A  |
| – Overload behavior (power boost for 25 ms)                                     | 60 A  | 120 A   |
| – Overload behavior (extra power can be set, e.g. 150% for 5 s/min)             | 30 A  | 60 A  |
| – Derating  | from +60°C (3.75%/K)  | from +60°C (3.75%/K)  |
| Efficiency at rated values, approx.   | 96%   | 96%   |
| Signaling contact "DC ok"   | Yes   | Yes   |
| Interface   | IO-Link, COM3 (230.4 kBaud)   | IO-Link, COM3 (230.4 kBaud)   |
| Remote on/off   | Yes, via display and IO-Link  | Yes, via display and IO-Link  |
| Parallel switching  | Yes, active load sharing via control contact or inclined output characteristic curve selectable via display and IO-Link | Yes, active load sharing via control contact or inclined output characteristic curve selectable via display and IO-Link |
| Electronic short-circuit protection   | Yes, constant current or latching shutdown selectable via display or IO-Link  | Yes, constant current or latching shutdown selectable via display or IO-Link  |
| EMF suppression (EN 55022)  | Class B   | Class B   |
| Line harmonics limitation   | Yes (EN 61000-3-2)  | Yes (EN 61000-3-2)  |
| Degree of protection (EN 60529)   | IP20  | IP20  |
| Ambient temperature   | –40...+70°C   | –40...+70°C   |
| Dimensions (W x H x D) in mm  | 59 x 145 x 125  | 99 x 145 x 125  |
| Weight approx.  | 1.15 kg   | 1.9 kg  |
| Certification   | CE, CB, cULus, SEMI F47, pending: RCM, DNV, ABS   | CE, CB, cULus, SEMI F47, pending: RCM, DNV, ABS   |
| Accessories: connection set for connecting the SITOP SEL1600 selectivity system | 6EP4990-8KK10-0XU0  | 6EP4990-8KK20-0XU0  |

Specifications at rated input voltage and ambient temperature at +25 °C (unless otherwise specified)

# SITOP PSU8200 advanced power supplies

## Technology power supply for demanding applications



| Technical data  | SITOP PSU8200 1-phase  |  |  |   | SITOP PSU200M 1-phase/2-phase <sup>2)</sup>                         |
|---|--|--|--|---|---|
| Output voltage/current, type  | 24 V/5 A, PSU8200  | 24 V/10 A, PSU8200                                       | 24V/20 A, PSU8200  | 24 V/40 A, PSU8200  | 24 V/5 A, PSU200M   |
| Article No.   | <a href="#">6EP3333-8SB00-0AY0</a>   | <a href="#">6EP3334-8SB00-0AY0</a>                       | <a href="#">6EP1336-3BA10</a>                                | <a href="#">6EP3337-8SB00-0AY0</a>  | <a href="#">6EP1333-3BA10</a>                                       |
| Article No. Ex version  |  |  |  | <a href="#">6EP3337-8SC00-0AY0</a>  |   |
| Rated input voltage<br>– Range  | 120–230 V AC<br>85...132/170...264 V AC, automatic range switching   |  | 120–230 V AC, 110-220 V DC<br>85...275 V AC or 88...350 V DC | 120/230 V AC<br>85...132/170...264 V AC,<br>automatic range switching           | 120–230/230–500 V AC<br>85...264/176...550 V AC                     |
| Mains buffering   | > 35 ms (at 120/230 V)   | > 35 ms (at 120/230 V)                                   | > 20 ms (at 120/230 V)                                       | > 25 ms (at 230 V)  | > 25 ms (at 120/230 V)  |
| Rated line frequency  | 50/60 Hz   | 50/60 Hz   | 50/60 Hz   | 50/60 Hz  | 50/60 Hz  |
| Rated input current<br>– Inrush current <sup>1)</sup><br>– Recommended miniature circuit breaker.<br><a href="#">See also FAQ</a> | 2.1/1.2 A<br>< 10 A<br>6 A charact. C<br>or 3RV2021-1xA10  | 4/1.9 A<br>< 10 A<br>10 A charact. C<br>or 3RV2021-1xA10 | 4.6–2.5 A<br>< 20 A<br>10 A charact. C<br>or 3RV2021-1xA10   | 15.0/8.0 A<br>< 50 A<br>20 A charact. C<br>or 3RV2411-xxA10                     | 2.2–1.2/1.2–0.61 A<br>< 35 A<br>6 A charact. C<br>or 3RV2011-1xA10  |
| Rated output voltage<br>– Tolerance<br>– Setting range  | 24 V DC<br>± 3%<br>24...28.8 V DC  | 24 V DC<br>± 3%<br>24...28.8 V DC                        | 24 V DC<br>± 3%<br>24...28.8 V DC                            | 24 V DC<br>± 3%<br>24...28.8 V DC   | 24 V DC<br>± 3%<br>24...28.8 V DC                                   |
| Rated output current<br>– Overload behavior<br>(power boost for 25 ms)  | 5 A<br>15 A  | 10 A<br>30 A   | 20 A<br>60 A   | 40 A<br>120 A   | 5 A<br>15 A   |
| – Overload behavior<br>(extra power for 5 s/min)  | 7.5 A  | 15 A   | 30 A   | 60 A  | No  |
| – Derating  | No   | from +60 °C (2%/K)                                       | from +60 °C (3%/K)   | from +60 °C (2.5%/K)  | from +60 °C (3%/K)  |
| Efficiency at rated values, approx.   | 93%  | 94%  | 94%  | 92%   | 88%   |
| Signaling contact "DC o. k."  | Yes  | Yes  | Yes  | Yes   | Yes   |
| Remote On/Off   | Yes  | Yes  | Yes  | No  | No  |
| Parallel switching  | Yes, output characteristic can be switched to parallel operation   |  |  |   |   |
| Electronic short-circuit protection   | Yes, constant current or latching shutdown selectable; constant current: approx. 1.15 x rated output current |  |  |   |   |
| EMF suppression (EN 55022)  | Class B  | Class B  | Class B  | Class B   | Class B   |
| Line harmonics limitation   | Yes (EN 61000-3-2)   | Yes (EN 61000-3-2)                                       | Yes (EN 61000-3-2)   | Yes (EN 61000-3-2)  | Yes (EN 61000-3-2)  |
| Degree of protection (EN 60529)   | IP20   | IP20   | IP20   | IP20  | IP20  |
| Ambient temperature   | –25...+70 °C   | –25...+70 °C   | –25...+70 °C   | –25...+70 °C  | –25...+70 °C  |
| Dimensions (W x H x D) in mm  | 45 x 125 x 125   | 55 x 125 x 125   | 90 x 125 x 125   | 145 x 145 x 150   | 70 x 125 x 121  |
| Weight approx.  | 0.8 kg   | 1 kg   | 1.2 kg   | 3.1 kg  | 0.6 kg  |
| Certification   | CE, CB, cULus, SEMI F47, BIS, RCM, IRAM, DNV, ABS  |  |  | CE, CB, cULus, BIS, RCM, IRAM, DNV, ABS,<br>Ex version: ATEX, IECEx, ULEEx, CCC | CE, CB, cULus, SEMI F47 <sup>3)</sup> , BIS, RCM, IRAM,<br>DNV, ABS |

<sup>1)</sup> Inrush current can be limited using a SITOP inrush current limiter: [6EP4683-6LB00-0AY0](#) (max. 5 A, 100-240 V AC) or [6EP1967-2AA00](#) (max. 10 A, 100-480 V AC, 1 unit per phase required).

<sup>2)</sup> Connection to two phases of a three-phase supply network <sup>3)</sup> For input voltage 208-230 V AC  
Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified).



| Technical data  | SITOP PSU200M 1-phase/2-phase <sup>2)</sup>  | SITOP PSU8200 3-phase  |   | SITOP PSU8200 3-phase, 36 V  | SITOP PSU8200 3-phase, 48 V  |   |
|---|--|--|---|--|--|---|
| Output voltage/current, type  | 24 V/10 A, PSU200M   | 24 V/20 A, PSU8200   | 24 V/40 A, PSU8200  | 36 V/13 A, PSU8200   | 48 V/10 A, PSU8200   | 48 V/20 A, PSU8200  |
| Article No.   | 6EP1334-3BA10  | 6EP3436-8SB00-0AY0   | 6EP3437-8SB00-0AY0  | 6EP3446-8SB10-0AY0   | 6EP3446-8SB00-0AY0   | 6EP3447-8SB00-0AY0  |
| Rated input voltage<br>– Range  | 120–230/230–500 V AC<br>85...264/176...550 V AC  | 400–500 V 3 AC<br>320...575 V 3 AC   | 400–500 V 3 AC<br>320...575 V 3 AC  | 400–500 V 3 AC<br>320...575 V 3 AC   | 400–500 V 3 AC<br>320...575 V 3 AC   | 400–500 V 3 AC<br>320...575 V 3 AC  |
| Mains buffering   | > 25 ms (at 120/230 V)   | > 15 ms (at 400 V)   | > 10 ms (at 400 V)  | > 15 ms (at 400 V)   | > 15 ms (at 400 V)   | > 10 ms (at 400 V)  |
| Rated line frequency  | 50/60 Hz   | 50/60 Hz   | 50/60 Hz  | 50/60 Hz   | 50/60 Hz   | 50/60 Hz  |
| Rated input current<br>– Inrush current <sup>1)</sup><br>– Recommended miniature circuit<br>breaker. <a href="#">See also FAQ</a> | 4.4–2.4/2.4–1.1 A<br>< 35 A<br>6 A charact. C<br>or 3RV2011-1xA10  | 1.2–1.0 A<br>< 18 A<br>6–16 A charact. C 3-ph.<br>coupled or 3RV2011-1DA10<br>or 3RV2711-1DD10 | 2.1–1.7 A<br>< 13 A<br>10–16 A charact. C 3-ph.<br>coupled or 3RV2011-1DA10<br>or 3RV2711-1DD10 | 1.2–1.0 A<br>< 18 A<br>6–16 A charact. C 3-ph.<br>coupled or 3RV2011-1DA10<br>or 3RV2711-1DD10 | 1.2–1.0 A<br>< 18 A<br>6–16 A charact. C 3-ph.<br>coupled or 3RV2011-1DA10<br>or 3RV2711-1DD10 | 2–1.7 A<br>< 13 A<br>10–16 A charact. C 3-ph.<br>coupled or 3RV2011-1DA10<br>or 3RV2711-1DD10 |
| Rated output voltage<br>– Tolerance<br>– Setting range  | 24 V DC<br>± 3 %<br>24...28.8 V DC   | 24 V DC<br>± 3 %<br>24...28.8 V DC   | 24 V DC<br>± 3 %<br>24...28 V DC  | 36 V DC<br>± 3 %<br>36...40 V DC   | 48 V DC<br>± 3 %<br>42...56 V DC   | 48 V DC<br>± 3 %<br>46...56 V DC  |
| Rated output current  | 10 A   | 20 A   | 40 A  | 13 A   | 10 A   | 20 A  |
| – Overload behavior<br>(power boost for 25 ms)  | 30 A   | 60 A   | 120 A   | 39 A   | 23 A   | 60 A  |
| – Overload behavior<br>(extra power for 5 s/min)  | No   | 30 A   | 60 A  | 19.5 A   | 15 A   | 30 A  |
| – Derating  | from +60 °C (3%/K)   | from +60 °C (3%/K)   | from +60 °C (4%/K)  | from +60 °C (3%/K)   | from +60 °C (3%/K)   | from +60 °C (4%/K)  |
| Efficiency at rated values, approx.   | 91 %   | 94 %   | 94 %  | 94 %   | 93 %   | 94 %  |
| Signaling contact "DC o. k."  | Yes  | Yes  | Yes   | Yes  | Yes  | Yes   |
| Remote On/Off   | No   | Yes  | Yes   | Yes  | Yes  | Yes   |
| Parallel switching  | Yes, output characteristic can be switched to parallel operation   |  |   |  |  |   |
| Electronic short-circuit protection   | Yes, constant current or latching shutdown selectable; constant current: approx. 1.15 x rated output current |  |   |  |  |   |
| EMF suppression (EN 55022)  | Class B  | Class B  | Class B   | Class B  | Class B  | Class B   |
| Line harmonics limitation   | Yes (EN 61000-3-2)   | Yes (EN 61000-3-2)   | Yes (EN 61000-3-2)  | Yes (EN 61000-3-2)   | Yes (EN 61000-3-2)   | Yes (EN 61000-3-2)  |
| Degree of protection (EN 60529)   | IP20   | IP20   | IP20  | IP20   | IP20   | IP20  |
| Ambient temperature   | –25...+70 °C   | –25...+70 °C   | –25...+70 °C  | –10...+70 °C   | –25...+70 °C   | –25...+70 °C  |
| Dimensions (W x H x D) in mm  | 70 x 125 x 121   | 70 x 125 x 125   | 135 x 145 x 150   | 70 x 125 x 125   | 70 x 125 x 125   | 135 x 145 x 150   |
| Weight approx.  | 1.4 kg   | 1.2 kg   | 3.3 kg  | 1.2 kg   | 1.2 kg   | 3.3 kg  |
| Certification   | CE, CB, cULus, SEMI F47 <sup>3)</sup> , BIS, RCM, IRAM, DNV, ABS   |  |   | CE, CB, cULus, RCM, IRAM, DNV, ABS   | CE, CB, cULus, RCM, SEMI F47, IRAM, DNV, ABS   |   |

# SITOP PSU6200 standard power supplies

The all-around power supply for a wide range of applications

| Siemens EcoTech  |   |  |  |                              |  |  |  |
|--|---|---|---|---|---|---|---|
| Technical data   |   | SITOP PSU6200 1-phase   |   |   |   |   |   |
| Output voltage/current, type                             | 12 V/2 A, PSU6200   | 24 V/1,3 A, PSU6200   | 24 V/2.5 A, PSU6200   | 12 V/7 A, PSU6200   | 24 V/3,7 A, PSU6200   | 24 V/5 A, PSU6200   |   |
| Article No.  | <a href="#">6EP3321-7SB00-0AX0</a>  | <a href="#">6EP3331-7SB00-0AX0</a>  | <a href="#">6EP3332-7SB00-0AX0</a>  | <a href="#">6EP3323-7SB00-0AX0</a>  | <a href="#">6EP3333-7LB00-0AX0</a>  | <a href="#">6EP3333-7SB00-0AX0</a>  |   |
| Article No. Ex version                                   |   |   |   |   |   | <a href="#">6EP3333-7SC00-0AX0</a>  |   |
| Rated input voltage                                      | 120–240 V AC/120-240 V DC   |   |   | 120–240 V AC/120-240 V DC   |   |   |   |
| – Range  | 85...264 V AC/110...275 V DC  |   |   | 85...264 V AC/99...275 V DC   |   |   |   |
| Mains buffering  | 150 ms at U <sub>in</sub> = 230 V   | 150 ms at U <sub>in</sub> = 230 V   | 150 ms at U <sub>in</sub> = 230 V   | 90 ms at U <sub>in</sub> = 230 V  | 90 ms at U <sub>in</sub> = 230 V  | 80 ms at U <sub>in</sub> = 230 V  |   |
| Rated line frequency                                     | 50/60 Hz  | 50/60 Hz  | 50/60 Hz  | 50/60 Hz  | 50/60 Hz  | 50/60 Hz  |   |
| Rated input current                                      | 0.5/0.3 A   | 0.6/0.3 A   | 1.1/0.6 A   | 1.4/0.8 A   | 1.5/0.9 A   | 1.9/1.1 A   |   |
| – Inrush current <sup>1)</sup>                           | < 32 A  | < 32 A  | < 32 A  | < 29 A  | < 29 A  | < 29 A  |   |
| – Recommended miniature circuit breaker.<br>See also FAQ | from 4 A characteristic C   | from 4 A characteristic C   | from 4 A characteristic C   | from 6 A characteristic C   | from 6 A characteristic C   | from 6 A characteristic C   |   |
| Rated output voltage                                     | 12 V  | 24 V  | 24 V  | 12 V  | 24 V  | 24 V  |   |
| – Tolerance  | ± 3%  | ± 3%  | ± 3%  | ± 3%  | ± 3%  | ± 3%  |   |
| – Setting range  | 10.5...12.9 V   | 22.2...26.4 V   | 22.2...26.4 V   | 12...15.5 V   | 24...28 V   | 24...28 V   |   |
| Rated output current                                     | 2 A   | 1.3 A   | 2.5 A   | 7 A   | 3.7 A   | 5 A   |   |
| – Permanently up to +45 °C                               | 2 A   | 1,3 A   | 2.5 A   | 8.4 A   | 3.7 A   | 6 A   |   |
| – Overload behavior<br>(extra power for 5 s/min)         | –   | –   | –   | 150%  | –   | 150%  |   |
| – Derating   | –   | from +60 °C (2.5%/K)  | from +60 °C (1.5%/K)  | from +60 °C (2%/K)  | –   | from +60 °C (2%/K)  |   |
| Efficiency at rated values, approx.                      | 83.3%   | 86.3%   | 89%   | 87.1%   | 89.3%   | 90.2%   |   |
| Signaling contact  | No  | No  | No  | DC o.k.   | DC o.k.   | DC o.k.   |   |
| Parallel switching                                       | No  | No  | No  | No  | No  | No  |   |
| Electronic short-circuit protection                      | Yes, restart  | Yes, restart  | Yes, restart  | Yes, constant current<br>(< 9 V hiccup)   | Yes, constant current<br>(< 15 V hiccup)  | Yes, constant current<br>(< 15 V hiccup)  |   |
| EMF suppression (EN 55022)                               | Class B   | Class B   | Class B   | Class B   | Class B   | Class B   |   |
| Line harmonics limitation<br>(EN 61000-3-2)              | Not applicable  | Not applicable  | Not applicable  | Yes   | Yes   | Yes   |   |
| Degree of protection (EN 60529)                          | IP 20   | IP 20   | IP 20   | IP 20   | IP 20   | IP 20   |   |
| Ambient temperature                                      | Operation –25...+70 °C  |   |   | Operation –30 ... +70 °C, startup from –40°C  |   |   |   |
| Dimensions (W x H x D) in mm                             | 25 x 100 x 88   | 25 x 100 x 88   | 40 x 100 x 88   | 35 x 135 x 125  | 35 x 135 x 125  | 35 x 135 x 125  |   |
| Weight approx.   | 0.2 kg  | 0.2 kg  | 0.25 kg   | 0.7 kg  | 0.7 kg  | 0.7 kg  |   |
| Certification  | CE, CB, cULus, SEMI F47, BIS, RCM, DNV, ABS. NEC Class 2: 12 V/2 A, 24 V/1.3 A; 2.5 A |   |   | CE, CB, cULus, BIS, SEMI F47, RCM, IRAM, DNV, ABS. NEC Class 2: 24 V/ 3.7 A. Ex version: ATEX, IECEx, ULEx, CCC |   |   |   |

<sup>1)</sup> Inrush current can be limited using a SITOP inrush current limiter: Article no. [6EP4683-6LB00-0AY0](#) (max. 5 A, 100-240 V AC)  
Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

NEW



SITOP PSU6200 1-phase

| 12 V/12 A, PSU6200   | 24 V/10 A, PSU6200   | 48 V/5 A, PSU6200                     | 24 V/20 A, PSU6200   | 48 V/10 A, PSU6200                    | 24 V/40 A, PSU6200                    |
|--|--|---------------------------------------|--|---------------------------------------|---------------------------------------|
| <a href="#">6EP3324-7SB00-3AX0</a>   | <a href="#">6EP3334-7SB00-3AX0</a><br><a href="#">6EP3334-7SC00-3AX0</a> | <a href="#">6EP3344-7SB00-3AX0</a>    | <a href="#">6EP3336-7SB00-3AX0</a><br><a href="#">6EP3336-7SC00-3AX0</a> | <a href="#">6EP3346-7SB00-3AX0</a>    | <a href="#">6EP3337-7SB00-3AX0</a>    |
| 120–230 V AC/110–240 V DC  |  |                                       |  |                                       |                                       |
| 85...264 V AC/85...275 V DC  |  |                                       |  |                                       |                                       |
| 70 ms at U <sub>in</sub> = 230 V   | 45 ms at U <sub>in</sub> = 230 V   | 46 ms at U <sub>in</sub> = 230 V      | 25 ms at U <sub>in</sub> = 230 V   | 25 ms at U <sub>in</sub> = 230 V      | 25 ms at U <sub>e</sub> = 230 V       |
| 50/60 Hz   | 50/60 Hz   | 50/60 Hz                              | 50/60 Hz   | 50/60 Hz                              | 50/60 Hz                              |
| 1.4/0.8 A  | 2.2/1.2 A  | 2.2/1.2 A                             | 4.3/2.3 A  | 4.3/2.3 A                             | 8.6/4.7 A                             |
| < 6 A  | < 6 A  | < 6 A                                 | < 12 A   | < 12 A                                | < 19 A                                |
| from 6 A characteristic C  | from 10 A characteristic C   | from 10 A characteristic C            | from 10 A characteristic C   | from 10 A characteristic C            | from 10 A characteristic B            |
| 12 V   | 24 V   | 48 V                                  | 24 V   | 48 V                                  | 24 V                                  |
| ± 3%   | ± 3%   | ± 3%                                  | ± 3%   | ± 3%                                  | ± 3%                                  |
| 12...15.5 V  | 24...28 V  | 48...56 V                             | 24...28 V  | 48...56 V                             | 24...28 V                             |
| 12 A   | 10 A   | 5 A                                   | 20 A   | 10 A                                  | 20 A                                  |
| 14.4 A   | 12 A   | 6 A                                   | 24 A   | 12 A                                  | 24 A                                  |
| 150%   | 150%   | 150%                                  | 150%   | 150 %                                 | 60 A                                  |
| from +60 °C (2%/K)   | from +60 °C (2%/K)   | from +60 °C (3%/K)                    | from +60 °C (1%/K)   | from +60 °C (3%/K)                    | from +60 °C (1%/K)                    |
| 89.3%  | 92.8%  | 93.9%                                 | 95.5%  | 95.8%                                 | 95.5%                                 |
| DC o.k./Diagnostics  | DC o.k./Diagnostics  | DC o.k./Diagnostics                   | DC o.k./Diagnostics  | DC o.k./Diagnostics                   | DC o.k./Diagnostics                   |
| Yes, 2 units   | Yes, 2 units   | Yes, 2 units                          | Yes, 2 units   | Yes, 2 units                          | Yes, 2 units                          |
| Yes, constant current (< 9 V hiccup)   | Yes, constant current (< 15 V hiccup)                                    | Yes, constant current (< 30 V hiccup) | Yes, constant current (< 15 V hiccup)                                    | Yes, constant current (< 30 V hiccup) | Yes, constant current (< 15 V hiccup) |
| Class B  | Class B  | Class B                               | Class B  | Class B                               | Class B                               |
| Yes  | Yes  | Yes                                   | Yes  | Yes                                   | Yes                                   |
| IP 20  | IP 20  | IP 20                                 | IP 20  | IP 20                                 | IP 20                                 |
| -25...+70 °C, startup from -40 °C  | Operation -30 ... +70 °C, startup from -40 °C                            |                                       |  |                                       |                                       |
| 45 x 135 x 125   | 45 x 135 x 125   | 45 x 135 x 125                        | 70 x 135 x 155   | 70 x 135 x 155                        | 115 x 135 x 155                       |
| 0.9 kg   | 0.9 kg   | 0.9 kg                                | 1.5 kg   | 1.5 kg                                | 2.1 kg                                |
| CE, CB, cULus, SEMI F47, BIS (pending for 24 V/40 A), RCM, IRAM (pending for 24 V/40 A), DNV, ABS (pending for 24 V/40 A). Ex version: ATEX, IECEx, ULEEx, CCC |  |                                       |  |                                       |                                       |

# SITOP PSU6200 standard power supplies

The all-around power supply for a wide range of applications

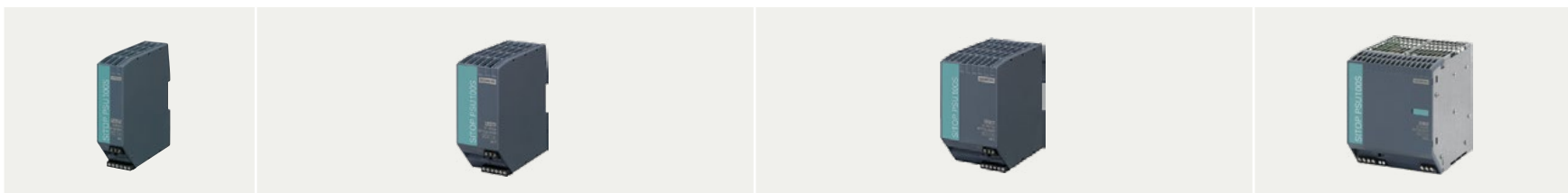


| Technical data  | SITOP PSU6200 3-phase  |   |                                       |                                       |                                       |                                       |                                       |
|---|--|---|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| Output voltage  | 24 V/5 A, PSU6200  | 24 V/10 A, PSU6200                                    | 48 V/5 A, PSU6200                     | 24 V/20 A, PSU6200                    | 48 V/10 A, PSU6200                    | 24 V/40 A, PSU6200                    | 48 V/20 A, PSU6200                    |
| Article No.   | 6EP3433-7SB00-0AX0   | 6EP3434-7SB00-3AX0                                    | 6EP3444-7SB00-3AX0                    | 6EP3436-7SB00-3AX0                    | 6EP3446-7SB00-3AX0                    | 6EP3437-7SB00-3AX0                    | 6EP3447-7SB00-3AX0                    |
| Article No. Ex version                                | 6EP3433-7SC00-0AX0   | 6EP3434-7SC00-3AX0                                    |                                       | 6EP3436-7SC00-3AX0                    |                                       | 6EP3437-7SC00-3AX0                    |                                       |
| Rated input voltage                                   | 400–500 V 3 AC/500–550 V DC  |   |                                       |                                       |                                       |                                       |                                       |
| – Range   | 323 ... 576 V 3 AC/450...600 V DC  |   |                                       |                                       |                                       |                                       |                                       |
| Mains buffering                                       | 20 ms at Uin = 400 V   | 30 ms at Uin = 400 V                                  | 30 ms at Uin = 400 V                  | 25 ms at Uin = 400 V                  | 25 ms at Uin = 400 V                  | 25 ms at Uin = 400 V                  | 25 ms at Uin = 400 V                  |
| Rated line frequency                                  | 50/60 Hz   | 50/60 Hz  | 50/60 Hz                              | 50/60 Hz                              | 50/60 Hz                              | 50/60 Hz                              | 50/60 Hz                              |
| Rated input current                                   | 0.33/0.28 A  | 0.39/0.32 A   | 0.39/0.32 A                           | 0.77/0.62 A                           | 0.77/0.62 A                           | 1.5/1.2 A                             | 1.5/1.2 A                             |
| – Inrush current                                      | < 22 A   | < 13 A  | < 13 A                                | < 17 A                                | < 17 A                                | < 10 A                                | < 10 A                                |
| – Recommended miniature circuit breaker. See also FAQ | 4...10 A char. C 3-ph. coupled <sup>1)</sup>   | 4...16 A characteristic C 3-ph. coupled <sup>1)</sup> |                                       |                                       |                                       |                                       |                                       |
| Rated output voltage                                  | 24 V   | 24 V  | 48 V                                  | 24 V                                  | 48 V                                  | 24 V                                  | 48 V                                  |
| – Tolerance   | ± 3%   | ± 3%  | ± 3%                                  | ± 3%                                  | ± 3%                                  | ± 3%                                  | ± 3%                                  |
| – Setting range                                       | 24...28 V  | 24...28 V   | 48...56 V                             | 24...28 V                             | 48...56 V                             | 24...28 V                             | 48...56 V                             |
| Rated output current                                  | 5 A  | 10 A  | 5 A                                   | 20 A                                  | 10 A                                  | 40 A                                  | 20 A                                  |
| – Permanently up to +45 °C                            | 6 A  | 12 A  | 6 A                                   | 24 A                                  | 12 A                                  | 48 A                                  | 24 A                                  |
| – Overload behavior (extra power for 5 s/min)         | 150%   | 150%  | 150 %                                 | 150%                                  | 150 %                                 | 150 %                                 | 150 %                                 |
| – Derating  | from +60 °C (3%/K)   | from +60 °C (3%/K)                                    | from +60 °C (3%/K)                    | from +60 °C (3%/K)                    | from +60 °C (3%/K)                    | from +60 °C (3%/K)                    | from +60 °C (3%/K)                    |
| Efficiency at rated values, approx.                   | 91.2%  | 95.4%   | 95.6%                                 | 95.9%                                 | 96.2%                                 | 96.0%                                 | 96.6%                                 |
| Signaling contact                                     | DC o.k.  | DC o.k./Diagnostics                                   | DC o.k./Diagnostics                   | DC o.k./Diagnostics                   | DC o.k./Diagnostics                   | DC o.k./Diagnostics                   | DC o.k./Diagnostics                   |
| Parallel switching                                    | No   | Yes, 2 units  | Yes, 2 units                          | Yes, 2 units                          | Yes, 2 units                          | Yes, 2 units                          | Yes, 2 units                          |
| Electronic short-circuit protection                   | Yes, constant current (< 15 V hiccup)  | Yes, constant current (< 15 V hiccup)                 | Yes, constant current (< 30 V hiccup) | Yes, constant current (< 15 V hiccup) | Yes, constant current (< 30 V hiccup) | Yes, constant current (< 15 V hiccup) | Yes, constant current (< 30 V hiccup) |
| EMF suppression (EN 55022)                            | Class B  | Class B   | Class B                               | Class B                               | Class B                               | Class B                               | Class B                               |
| Line harmonics limitation (EN 61000-3-2)              | Yes  | Yes   | Yes                                   | Yes                                   | Yes                                   | Yes                                   | Yes                                   |
| Degree of protection (EN 60529)                       | IP 20  | IP 20   | IP 20                                 | IP 20                                 | IP 20                                 | IP 20                                 | IP 20                                 |
| Ambient temperature                                   | Operation: –30 ...+ 70 °C, startup from –40 °C   |   |                                       |                                       |                                       |                                       |                                       |
| Dimensions (W x H x D) in mm                          | 35 x 135 x 125   | 45 x 135 x 155  | 45 x 135 x 155                        | 70 x 135 x 155                        | 70 x 135 x 155                        | 95 x 135 x 155                        | 95 x 135 x 155                        |
| Weight approx.  | 0.7 kg   | 0.9 kg  | 0.9 kg                                | 1.5 kg                                | 1.5 kg                                | 2.1 kg                                | 2.1 kg                                |
| Certification   | CE, CB, cULus, SEMI F47, BIS (pending for 6EP3437-7SC00-3AX0), DNV, ABS, Ex version: ATEX, IECEx, ULEx, CCC. |   |                                       |                                       |                                       |                                       |                                       |

<sup>1)</sup> Or 3RV2011-1EA10 or 3RV2711-1ED10  
Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

# SITOP smart standard power supplies

## The high-performance standard power supply



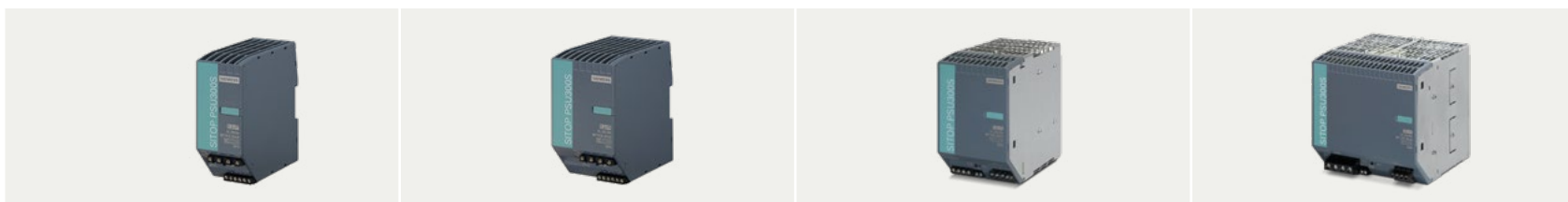
| Technical data  | SITOP smart 1-phase  |                               |                               |                               |                               |                               |
|---|--|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| Output voltage/current. type  | 24 V/2.5 A, PSU100S  | 24 V/5 A, PSU100S             | 12 V 7A, PSU100S              | 24 V/10 A, PSU100S            | 12 V/14 A, PSU100S            | 24 V/20 A, PSU100S            |
| Article No.   | <a href="#">6EP1332-2BA20</a>  | <a href="#">6EP1333-2BA20</a> | <a href="#">6EP1322-2BA00</a> | <a href="#">6EP1334-2BA20</a> | <a href="#">6EP1323-2BA00</a> | <a href="#">6EP1336-2BA10</a> |
| Rated input voltage   | 120/230 V AC   | 120/230 V AC                  | 120/230 V AC                  | 120/230 V AC                  | 120/230 V AC                  | 120/230 V AC                  |
| – Range   | 85...132/170...264 V AC, automatic range switching   |                               |                               |                               |                               |                               |
| Mains buffering   | > 20 ms (at 93/187 V)  | > 20 ms (at 93/187 V)         | > 20 ms (at 93/187 V)         | > 20 ms (at 93/187 V)         | > 20 ms (at 93/187 V)         | > 20 ms (at 120/230 V)        |
| Rated line frequency  | 50/60 Hz   | 50/60 Hz                      | 50/60 Hz                      | 50/60 Hz                      | 50/60 Hz                      | 50/60 Hz                      |
| Rated input current   | 1.25 A/0.74 A  | 2.34 A/1.36 A                 | 1.73 A/0.99 A                 | 4.49 A/1.91 A                 | 3.24 A/1.41 A                 | 7.5/3.5 A                     |
| – Inrush current <sup>1)</sup>  | < 33 A   | < 40 A                        | < 45 A                        | < 60 A                        | < 60 A                        | < 11 A                        |
| – Recommended miniature circuit breaker. See also <a href="#">FAQ</a> | from 3 A characteristic C  | from 6 A characteristic C     | from 6 A characteristic C     | from 10 A characteristic C    | from 10 A characteristic C    | from 10 A characteristic C    |
| Rated output current  | 24 V DC  | 24 V DC                       | 12 V DC                       | 24 V DC                       | 12 V DC                       | 24 V DC                       |
| – Tolerance   | ± 3 %  | ± 3 %                         | ± 3 %                         | ± 3 %                         | ± 3 %                         | ± 3 %                         |
| – Setting range   | 22.8...28 V DCV  | 22.8...28 V DCV               | 11.5...15.5 V DC              | 22.8...28 V DC                | 11.5...15.5 V DC              | 24...28 V DC                  |
| Rated output current  | 2.5 A  | 5 A                           | 7 A                           | 10 A                          | 14 A                          | 20 A                          |
| – Permanently up to +45 °C  | 3 A  | 6 A                           | 7 A                           | 12 A                          | 14 A                          | 24 A                          |
| – Overload behavior (extra power for 5 s/min)                         | 3.75 A   | 7.5 A                         | 10.5 A                        | 15 A                          | 21 A                          | 30 A                          |
| – Derating  | from +60 °C (3%/K)   | from +60 °C (3%/K)            | from +55 °C (5%/K)            | from +60 °C (3%/K)            | from +55 °C (5%/K)            | from +60 °C (5%/K)            |
| Efficiency at rated values. approx.                                   | 85 %   | 88 %                          | 84 %                          | 90 %                          | 87 %                          | 90 %                          |
| Signaling contact "DC o. k."  | Yes  | Yes                           | Yes                           | Yes                           | Yes                           | Yes                           |
| Parallel switching  | Yes  | Yes                           | Yes                           | Yes                           | Yes                           | Yes                           |
| Elec. short-circuit protection  | Yes, constant current  | Yes, constant current         | Yes, constant current         | Yes, constant current         | Yes, constant current         | Yes, restart                  |
| EMF suppression (EN 55022)  | Class B  | Class B                       | Class B                       | Class B                       | Class B                       | Class B                       |
| Line harmonics limitation (EN 61000-3-2)                              | Not applicable   | Yes                           | Yes                           | Yes                           | Yes                           | Yes                           |
| Degree of protection (EN 60529)                                       | IP20   | IP20                          | IP20                          | IP20                          | IP20                          | IP20                          |
| Ambient temperature   | –25...+70 °C   | –25...+70 °C                  | –25...+70 °C                  | –25...+70 °C                  | –25...+70 °C                  | –25 ...+70 °C                 |
| Dimensions (W x H x D) in mm  | 32.5 x 125 x 120   | 50 x 125 x 120                | 50 x 125 x 120                | 70 x 125 x 120                | 70 x 125 x 120                | 115 x 145 x 150               |
| Weight approx.  | 0.32 kg  | 0.5 kg                        | 0.5 kg                        | 0.8 kg                        | 0.8 kg                        | 2.4 kg                        |
| Certification   | CE, CB, cULus, RCM, DNV, BV: 2.5 A, 5 A, and 10 A variants, BIS: 5 A, 10 A, and 20 A variants, IRAM: 24 V variants |                               |                               |                               |                               |                               |

<sup>1)</sup> Inrush current can be limited by means of a SITOP inrush current limiter: [6EP4683-6LB00-0AY0](#) (max. 5 A, 100 - 240 V AC) or [6EP1967-2AA00](#) (max. 10 A, 100 - 480 V AC, 1 unit per phase required)

Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

# SITOP smart standard power supplies

## The high-performance standard power supply






| Technical data  | SITOP smart 3-phase                                |   |   |  |
|---|--|---|---|--|
| Output voltage/current. type  | 24 V/5 A, PSU300S                                  | 24 V/10 A, PSU300S                                  | 24 V/20 A, PSU300S                                  | 24 V/40 A, PSU300S                                 |
| Article No.   | <a href="#">6EP1433-2BA20</a>                      | <a href="#">6EP1434-2BA20</a>                       | <a href="#">6EP1436-2BA10</a>                       | <a href="#">6EP1437-2BA20</a>                      |
| Rated input voltage   | 400–500 V 3 AC                                     | 400–500 V 3 AC                                      | 400–500 V 3 AC                                      | 400–500 V 3 AC                                     |
| – Range   | 340...550 V 3 AC                                   | 340...550 V 3 AC                                    | 340...550 V 3 AC                                    | 340...550 V 3 AC                                   |
| Mains buffering   | > 6 ms (at 400 V)                                  | > 6 ms (at 400 V)                                   | > 6 ms (at 400 V)                                   | > 6 ms (at 400 V)                                  |
| Rated line frequency  | 50/60 Hz   | 50/60 Hz  | 50/60 Hz  | 50/60 Hz   |
| Rated input current   | 0.45–0.4 A   | 0.7–0.6 A   | 1.2–1.0 A   | 2.0–1.5 A  |
| – Inrush current <sup>1)</sup>  | < 40   | < 50  | < 36  | < 60 A   |
| – Recommended miniature circuit breaker. See also <a href="#">FAQ</a> | A6–16 A charact. C 3-ph. coupled or 3 RV2711-1DD10 | A 6–16 A charact. C 3-ph. coupled or 3 RV2711-1DD10 | A 6–16 A charact. C 3-ph. coupled or 3 RV2711-1DD10 | 10–16 A charact. C 3-ph. coupled or 3 RV2711-1DD10 |
| Rated output voltage  | 24 V DC  | 24 V DC   | 24 V DC   | 24 V DC  |
| – Tolerance   | ± 3 %  | ± 3 %   | ± 3 %   | ± 3 %  |
| – Setting range   | 24...28 V DC                                       | 24...28 V DC  | 24...28 V DC  | 24...28 V DC                                       |
| Rated output current  | 5 A  | 10 A  | 20 A  | 40 A   |
| – Permanently up to +45 °C  | 6 A  | 12 A  | 24 A  | 48 A   |
| – Overload behavior (extra power for 5 s/min)                         | 7.5 A  | 15 A  | 30 A  | 60 A   |
| – Derating  | from +60 °C (3%/K)                                 | from +60 °C (3%/K)                                  | from +60 °C (5%/K)                                  | from +60 °C (2.5%/K)                               |
| Efficiency at rated values. approx.                                   | 89 %   | 91 %  | 91 %  | 91.5 %   |
| Signaling contact "DC o. k."  | Yes  | Yes   | Yes   | Yes  |
| Parallel switching  | Yes  | Yes   | Yes   | Yes  |
| Electronic short-circuit protection                                   | Yes, constant current                              | Yes, constant current                               | Yes, restart  | Yes, restart                                       |
| EMF suppression (EN 55022)  | Class B  | Class B   | Class B   | Class B  |
| Line harmonics limitation (EN 61000-3-2)                              | Yes  | Yes   | Yes   | Yes  |
| Degree of protection (EN 60529)                                       | IP20   | IP20  | IP20  | IP20   |
| Ambient temperature   | –25...+70 °C                                       | –25...+70 °C  | 0...+70 °C  | 0...+70 °C   |
| Dimensions (W x H x D) in mm  | 50 x 125 x 120                                     | 70 x 125 x 120                                      | 90 x 145 x 150                                      | 150 x 145 x 150                                    |
| Weight approx.  | 0.43 kg  | 0.67 kg   | 1.6 kg  | 3.7 kg   |
| Certification   | CE, CB, cULus, BIS, RCM, IRAM, DNV, ABS            |   | CE, CB, cULus, BIS, IRAM, DNV, ABS                  | CE, CB, cULus, BIS, RCM, IRAM, DNV, ABS            |

<sup>1)</sup> Inrush current can be limited by means of a SITOP inrush current limiter: [6EP4683-6LB00-0AY0](#) (max. 5 A, 100 - 240 V AC) or [6EP1967-2AA00](#) (max. 10 A, 100 - 480 V AC, 1 unit per phase required)  
Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

# SITOP PSU4200 basic power supplies

## Fresh Power for basic applications

| <br><b>Siemens EcoTech</b><br><small>Exception: 6EP3336-3SB00-0AX0</small> |             |   |   |   |    |   |
|---|---|---|---|---|---|---|
|   | SITOP PSU4200 1-phase   |   |   |   | SITOP PSU4200 3-phase   |   |
| Technical data  | 24 V/3 A, PSU4200   | 24 V/5 A, PSU4200   | 24 V/10 A, PSU4200  | 24 V/20 A, PSU4200  | 24 V/10 A, PSU4200  | 24 V/20 A, PSU4200  |
| Output voltage/current, type  | 24 V/3 A, PSU4200   | 24 V/5 A, PSU4200   | 24 V/10 A, PSU4200  | 24 V/20 A, PSU4200  | 24 V/10 A, PSU4200  | 24 V/20 A, PSU4200  |
| Article No.   | 6EP3332-3SB00-0AX0  | 6EP3333-3SB00-0AX0  | 6EP3334-3SB00-0AX0  | 6EP3336-3SB00-0AX0  | 6EP3434-3SB00-0AX0  | 6EP3436-3SB00-0AX0  |
| Rated input voltage – Range   | 100 – 120 V AC / 200 – 240 V AC<br>85 – 132 V AC / 187 – 264 V AC (automatic range switching) |   |   | 100 – 240 V AC<br>85 – 264 V AC (wide range)                        | 400 – 500 V AC<br>320 – 550 V AC (wide range input)   |   |
| Mains buffering   | 15 ms   | 15 ms   | 15 ms   | 15 ms   | 5 ms  | 5 ms  |
| Rated line frequency  | 50/60 Hz  | 50/60 Hz  | 50/60 Hz  | 50/60 Hz  | 50/60 Hz  | 50/60 Hz  |
| Rated input current – Inrush current <sup>1)</sup>  | 1.3 A/0.73 A<br>< 45 A  | 2.1 A/1.25 A<br>< 45 A  | 4.3 A/2.5 A<br>< 60 A   | 4.5 A/2.4 A<br>< 20 A   | 0.7 A/0.6 A<br>< 50 A   | 1.4 A/1.2 A<br>< 36 A   |
| – Recommended miniature circuit breaker. <a href="#">See also FAQ</a>   | from 6 A characteristic C to 16 A characteristic C  |   |   | from 10 A characteristic C to 16 A characteristic C                 | Three-poled coupled circuit breaker from 3 A characteristic C to 16 A characteristic C or circuit breaker 3RV2011-1EA10 (setting 3 A) or 3RV2711-1ED10 (UL 489) | Three-poled coupled circuit breaker from 6 A characteristic C to 16 A characteristic C or circuit breaker 3RV2011-1EA10 (setting 6 A) or 3RV2711-1ED10 (UL 489) |
| Rated output voltage – Tolerance – Setting range  | 24 V DC<br>± 3%<br>24... 28 V DC  | 24 V DC<br>± 3%<br>24... 28 V DC                                    | 24 V DC<br>± 3%<br>24... 28 V DC                                    | 24 V DC<br>± 3%<br>24... 28 V DC                                    | 24 V DC<br>± 3%<br>24... 28 V DC  | 24 V DC<br>± 3%<br>24... 28 V DC  |
| Rated output current – Derating   | 3 A<br>–  | 5 A<br>from +60 °C (4 %/K)  | 10 A<br>from +60 °C (4 %/K)   | 20 A<br>from +60 °C (3 %/K)   | 10 A<br>from +60 °C (3 %/K)   | 20 A<br>from +60 °C (2 %/K)   |
| Efficiency at rated values, approx.   | 85%   | 87%   | 90%   | 93%   | 90%   | 91%   |
| Status indicator  | Green LED for DC OK (24 V)<br>Yellow LED for I <sub>out</sub> > 85%                           | Green LED for DC OK (24 V)<br>Yellow LED for I <sub>out</sub> > 85% | Green LED for DC OK (24 V)<br>Yellow LED for I <sub>out</sub> > 85% | Green LED for DC OK (24 V)<br>Yellow LED for I <sub>out</sub> > 85% | Green LED for DC OK (24 V)<br>Yellow LED for I <sub>out</sub> > 85%   | Green LED for DC OK (24 V)<br>Yellow LED for I <sub>out</sub> > 85%   |
| Signaling contact “DC o. k.”  | No  | Yes   | Yes   | Yes   | Yes   | Yes   |
| Parallel switching  | Yes   | Yes   | Yes   | Yes   | Yes   | Yes   |
| Electronic short-circuit protection   | Yes, constant current   | Yes, constant current   | Yes, constant current   | Yes, constant current (< 15 V hiccup)                               | Yes, constant current   | Yes, constant current   |
| EMF suppression (EN 55022)  | Class A   | Class A   | Class A   | Class A   | Class A   | Class A   |
| Line harmonics limitation (EN 61000-3-2)  | Yes   | Yes   | Yes   | Yes   | Yes   | Yes   |
| Degree of protection (EN 60529)   | IP 20   | IP 20   | IP 20   | IP 20   | IP 20   | IP 20   |
| Ambient temperature   | –25 up to +70 °C  | –25 up to +70 °C  | –25 up to +70 °C  | –25 up to +70 °C  | –25 up to +70 °C  | –25 up to +70 °C  |
| Dimensions (W x H x D) in mm  | 50 x 135 x 125  | 50 x 135 x 125  | 70 x 135 x 125  | 70 x 135 x 125  | 70 x 135 x 125  | 95 x 135 x 150  |
| Weight approx.  | 0.44 kg   | 0.44 kg   | 0.65 kg   | 0.93 kg   | 0.64 kg   | 1.66 kg   |
| Certification   | CE, CB, cULus, cCSAus, BIS, RCM, EAC  |   |   | CE, CB, cULus, RCM, EAC   | CE, CB, cULus, cCSAus, BIS, RCM, EAC  |   |

<sup>1)</sup> Inrush current can be limited using a SITOP inrush current limiter: 6EP4683-6LB00-0AY0 (max. 5 A, 100-240 V AC) or 6EP1967-2AA00 (max. 10 A, 100-480 V AC, 1 unit per phase required).  
 Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

# LOGO!Power basic power supplies

## Flat power supply for distribution boards



| Technical data   | 18-mm design  |                                    | 36-mm design  |   |   |   |
|--|---|------------------------------------|---|---|---|---|
| Output voltage/current   | 12 V/0.9 A  | 24 V/0.6 A                         | 5 V/3 A   | 12 V/1.9 A  | 15 V/1.9 A  | 24 V/1.3 A  |
| NEC Class 2  | Yes   | Yes                                | Yes   | Yes   | Yes   | Yes   |
| Article No.  | <a href="#">6EP3320-6SB00-0AY0</a>  | <a href="#">6EP3330-6SB00-0AY0</a> | <a href="#">6EP3310-6SB00-0AY0</a>  | <a href="#">6EP3321-6SB00-0AY0</a>                  | <a href="#">6EP3321-6SB10-0AY0</a>  | <a href="#">6EP3331-6SB00-0AY0</a>                  |
| Article No. Ex version   |   |                                    |   |   |   |   |
| Rated input voltage<br>– Range                                       | 100–240 V AC<br>85...264 V AC/110...300 V DC                              |                                    | 100–240 V AC<br>85...264 V AC/110...300 V DC                              |   |   |   |
| Mains buffering  | > 40 ms (at 187 V)  |                                    | > 40 ms (at 187 V)  |   |   |   |
| Rated line frequency   | 50/60 Hz  |                                    | 50/60 Hz  |   |   |   |
| Rated input current<br>– Inrush current <sup>1)</sup>                | 0.3–0.2 A<br>< 20 A   | 0.3–0.2 A<br>< 20 A                | 0.36–0.22 A<br>< 26 A   | 0.53–0.30 A<br>< 25 A                               | 0.63–0.33 A<br>< 25 A   | 0.70–0.35 A<br>< 25 A                               |
| – Recommended miniature circuit breaker.<br>See also FAQ             | from 6 A characteristic B or from 2 A characteristic C                    |                                    | from 6 A characteristic B or from 2 A characteristic C                    |   |   |   |
| Rated output voltage<br>– Tolerance<br>– Setting range               | 12 V DC<br>± 3 %<br>None  | 24 V DC<br>± 3 %<br>None           | 5 V DC<br>± 3 %<br>4.6...5.4 V DC   | 12 V DC<br>± 3 %<br>10.5...16.1 V DC                | DC 15 V<br>± 3 %<br>10.5...16.1 V DC                                      | 24 V DC<br>± 3 %<br>22.2...26.4 V DC                |
| Rated output current<br>– Overload behavior on startup<br>– Derating | 0.9 A<br>1.35 A (für 200 ms)  | 0.6 A<br>0.9 A (for 200 ms)        | 3.0 A<br>4.5 A (for 200 ms)<br>from +55 °C (2 %/K)                        | 1.9 A<br>2.85 A (for 200 ms)<br>from +55 °C (2 %/K) | 1.9 A<br>2.85 A (für 200 ms)<br>from +55 °C (2 %/K)                       | 1.3 A<br>1.95 A (für 200 ms)<br>from +55 °C (2 %/K) |
| Efficiency at rated values, approx.                                  | 78 %  | 81 %                               | 76 %  | 81 %  | 83 %  | 86 %  |
| Signaling contact "DC o. k."   | No  |                                    | No  | No  | No  | No  |
| Parallel switching   | No  | No                                 | Yes   | Yes   | Yes   | Yes   |
| No-load loss   | < 0.3 W   |                                    | < 0.3 W   |   |   |   |
| Electronic short-circuit protection                                  | Yes, constant current   |                                    | Yes, constant current   |   |   |   |
| EMF suppression (EN 55022)   | Class B   |                                    | Class B   |   |   |   |
| Line harmonics limitation<br>(EN 61000-3-2)                          | Not applicable  |                                    | Not applicable  |   |   |   |
| Degree of protection (EN 60529)                                      | IP20  |                                    | IP20  |   |   |   |
| Ambient temperature  | –25... +70 °C   |                                    | –25... +70 °C   |   |   |   |
| Dimensions (W x H x D) in mm   | 18 x 90 x 53  |                                    | 36 x 90 x 53  |   |   |   |
| Weight approx.   | 0.07 kg   | 0,07 kg                            | 0.12 kg   |   |   |   |
| Certification  | CE, CB, cULus, cURus, IRAM, RCM, NEC Class 2, SEMI F47, DNV, ABS, BV, EAC |                                    | CE, CB, cULus, cURus, IRAM, RCM, NEC Class 2, SEMI F47, DNV, ABS, BV, EAC |   | CE, CB, cULus, cURus, IRAM, RCM, NEC Class 2, SEMI F47, DNV, ABS, BV, EAC |   |







Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified).

<sup>1)</sup> Inrush current can be limited using a SITOP LOGO! ICL 230 inrush current limiter: [6EP4683-6LB00-0AY0](#) (max. 5 A, 100-240 V AC)



| Technical data  | 54-mm design   |   |   |  | 72-mm design   |
|---|--|---|---|--|--|
| Output voltage/current  | 5 V/6.3 A  | 12 V/4.5 A  | 15 V/4 A  | 24 V/2.5 A   | 24 V/4 A   |
| NEC Class 2   | No   | Yes   | Yes   | Yes  | No   |
| Article No.   | 6EP3311-6SB00-0AY0   | 6EP3322-6SB00-0AY0  | 6EP3322-6SB10-0AY0  | 6EP3332-6SB00-0AY0   | 6EP3333-6SB00-0AY0   |
| Article No. Ex version  |  |   |   |  | 6EP3333-6SC00-0AY0   |
| Rated input voltage<br>– Range  | 100–240 V AC<br>85...264 V AC/110...300 V DC                 |   |   |  | 100–240 V AC<br>85...264 V AC/110...300 V DC   |
| Mains buffering   | > 40 ms (at 187 V)   |   |   |  | > 40 ms (at 187 V)   |
| Rated line frequency  | 50/60 Hz   |   |   |  | 50/60 Hz   |
| Rated input current<br>– Inrush current <sup>1)</sup>                 | 0.71–0.37 A<br>< 50 A  | 1.13–0.61 A<br>< 50 A   | 1.24–0.68 A<br>< 55 A   | 1.22–0.66 A<br>< 52 A  | 1.95–0.97 A<br>< 31 A  |
| – Recommended miniature circuit breaker. <a href="#">See also FAQ</a> | from 10 A characteristic B or from 6 A characteristic C      |   |   |  | from 10 A characteristic B or from 6 A characteristic C  |
| Rated output voltage<br>– Tolerance<br>– Setting range                | 5 V DC<br>± 3%<br>4.6...5.4 V DC                             | 12 V DC<br>± 3%<br>10.5...16.1 V DC                                       | 15 V DC<br>± 3%<br>10.5...16.1 V DC                                       | 24 V DC<br>± 3%<br>22.2...26.4 V DC  | 24 V DC<br>± 3%<br>22.2...26.4 V DC  |
| Rated output current<br>– Overload behavior on startup<br>– Derating  | 6.3 A<br>9.45 A (for 200 ms)<br>from +55 °C (2 %/K)          | 4.5 A<br>6.75 A (for 200 ms)<br>from +55 °C (2 %/K)                       | 4.0 A<br>6.0 A (for 200 ms)<br>from +55 °C (2 %/K)                        | 2.5 A<br>3.75 A (for 200 ms)<br>from +55 °C (2 %/K)                                | 4.0 A<br>6.0 A (for 200 ms)<br>from +55 °C (2 %/K)   |
| Efficiency at rated values, approx.                                   | 80%  | 87%   | 88%   | 90%  | 89%  |
| Signaling contact "DC o. k."  | No   | No  | No  | No   | No   |
| Parallel switching  | Yes  | Yes   | Yes   | Yes  | Yes  |
| No-load loss  | < 0.3 W  |   |   |  | < 0,3 W  |
| Electronic short-circuit protection                                   | Yes, constant current  |   |   |  | Yes, constant current  |
| EMF suppression (EN 55022)  | Class B  |   |   |  | Class B  |
| Line harmonics limitation (EN 61000-3-2)                              | Not applicable   |   |   |  | Yes  |
| Degree of protection (EN 60529)                                       | IP20   |   |   |  | IP20   |
| Ambient temperature   | –25... +70 °C  |   |   |  | –25... +70 °C  |
| Dimensions (W x H x D) in mm  | 54 x 90 x 53   |   |   |  | 72 x 90 x 53   |
| Weight approx.  | 0.2 kg   |   |   |  | 0.29 kg  |
| Certification   | CE, CB, cULus, cURus, IRAM, RCM, SEMI F47, DNV, ABS, BV, EAC | CE, CB, cULus, cURus, IRAM, RCM, NEC Class 2, SEMI F47, DNV, ABS, BV, EAC | CE, CB, cULus, cURus, IRAM, RCM, NEC Class 2, SEMI F47, DNV, ABS, BV, EAC | CE, CB, cULus, cURus, BIS, IRAM, RCM, NEC Class 2, SEMI 47, DNV, ABS, BV, LRS, EAC | CE, CB, cULus, cURus, BIS and RCM for 6SB00, IRAM, SEMI F47, DNV, ABS, BV, LRS, EAC. Ex version: ATEX, IECEx, ULEEx, FM, CCC |

# SITOP in SIMATIC design

|   | NEW  |   |   |   |   |   |   |
|---|--|---|---|---|---|---|---|
|   |       |  |  |  |  |  |   |
| Technical data  | SIMATIC S7-1200-G2 design  | SIMATIC S7-1200 design  | SIMATIC S7-1500 design  |   | SIMATIC ET 200SP design   |   | SIMATIC ET 200pro design  |
| Output voltage/current, type  | 24 V/5 A, PM 1207  | 24 V/2.5 A, PM1207  | 24 V/3 A, PM1507  | 24 V/8 A, PM1507  | 24 V/5 A, PS  | 24 V/10 A, PS   | 24 V/8 A, ET 200pro PS  |
| Article No.   | 6EP3333-4SB00-3AX0   | 6EP1332-1SH71   | 6EP1332-4BA00   | 6EP1333-4BA00   | 6EP7133-6AB00-0BNO  | 6EP7133-6AE00-0BNO  | 6ES7148-4PC00-0HA0  |
| Article No. Ex version  | 6EP3333-4SC00-3AX0   |   | 6EP1332-4BA00-8AA0  |   |   |   |   |
| Rated input voltage   | AC/DC 120-240 V  | 120/230 V AC, automatic range selection   |   |   | 85...132/170...264 V AC   |   | 380-480 V 3 AC  |
| – Range   | AC 85...264 V/DC 99...275 V  | 85...132/176...264 V AC   | 85...132/176...264 V AC   |   | 85...132/170...264 V AC   |   | 340...550 V 3 AC  |
| Mains buffering   | 20 ms (at 120/240 V)   | 20 ms (at 93/187 V)   |   |   |   |   | 3 ms (at 400 V)   |
| Rated line frequency  | 50/60 Hz   | 50/60 Hz  |   |   |   |   |   |
| Rated input current   | 1.9–1.1 A/1.2–0.55 A   | 1.2/0.67 A  | 1.4/0.8 A   | 3.7/1.7 A   | 2.3/1.4 A   | 4.5/1.9 A   | 1 A   |
| – Inrush current <sup>1)</sup>  | < 45 A   | < 13 A  | < 23 A  | < 67 A  | < 40 A  | < 60 A  | < 40 A  |
| – Recommended miniature circuit breaker. <a href="#">See also FAQ</a> | 16 A charact. B, 10 A charact. C   | 16 A charact. B, 10 A charact. C  | from 6 A charact. C, from 10 A charact. B   | from 10 A charact. C, from 16 A charact. B  | 6 A charact. C  | 10 A charact. C   | 3RV2021-4NA10   |
| Rated output voltage  | 24 V DC  | 24 V DC   | 24 V DC   | 24 V DC   | 24 V DC   | 24 V DC   | 24 V DC   |
| – Tolerance   | ± 1.5%   | ± 3%  | ± 3%  | ± 3%  | ± 3%  | ± 3%  | – 5%/+3%  |
| – Setting range   | –  | –   | –   | –   | 22.8...28 V DC  | 22.8...28 V DC  | –   |
| – On/off switch   | No   | No  | Yes   | Yes   | Yes   | Yes   | No  |
| Rated output current  | 5 A  | 2.5 A   | 3 A   | 8 A   | 5 A   | 10 A  | 8 A   |
| – Permanently up to +45°C   | 6 A  | 2.5 A   | 3 A   | 8 A   | 5 A   | 10 A  | 8 A   |
| – Overload behavior (Extra Power für 5 s/min)                         | –  | –   | 4.5 A   | 12 A  | 7,5 A   | 15 A  | –   |
| Efficiency at rated values, approx.                                   | 88%  | 83%   | 87%   | 90%   | 88%   | 90%   | 88%   |
| Signaling contact "DC o. k."  | Diagnostic interface   | No  | No  | No  | DC ok   | DC ok   | DC ok and overtemperature   |
| Parallel switching  | Yes  | Yes   | Yes   | Yes   | Yes   | Yes   | No  |
| Electronic short-circuit protection                                   | Yes, constant current characteristic   | Yes, constant current characteristic  | Yes, restart  | Yes, restart  | Yes, constant current characteristic  |   | Yes, restart  |
| EMF suppression (EN 55022)  | Class B  | Class B   | Class B   | Class B   | Class B   | Class B   | EN 61000-6-4 (Class A)  |
| Line harmonics limitation (EN 61000-3-2)                              | Yes  | Not applicable  | Not applicable  | Yes   | Yes   | Yes   | No  |
| Degree of protection (EN 60529)                                       | IP20   | IP20  | IP20  | IP20  | IP20  | IP20  | IP67, UL: encl. type 5 indoor   |
| Ambient temperature   | –25...+70 °C   | 0...+60 °C  | 0...+60 °C  | 0...+60 °C  | –30...+70 °C  | –30...+70 °C  | –25...+55 °C  |
| Installation  | DIN rail or wall mounting  | DIN rail or wall mounting   | on S7-1500 system carrier   | on S7-1500 system carrier   | DIN rail  |   | Screw mounting, e.g., on ET 200pro system rail 310x135.5 (w/o plug-in connection) x90 |
| Dimensions (W x H x D) in mm  | 70 x 125 x 100   | 70 x 100 x 75   | 50 x 147 x 135  | 75 x 147 x 135  | 160 x 117 x 75  |   | 310x135.5 (w/o plug-in connection) x90  |
| Weight approx.  | 0.45 kg  | 0.3 kg  | 0.45 kg   | 0.74 kg   | 0.5 kg  | 0.8 kg  | 2.8 kg  |
| Certification   | CE, CB, cULus, SEMI F47, RCM, DNV, ABS in pending: Ex version: ATEX, IECEx, ULEEx, CCC | CE, CB, cULus, DNV, ABS, BV, LRS, ATEX, IECEx, ULEEx, CCC, FM                     | CE, CB, cULus, BIS, RCM, DNV, ABS, BV, LRS. Ex version: ATEX, IECEx, ULEEx, CCC, FM |   | CE, CB, cULus, (CCSAus) ABS, DNV, ATEX, IECEx, ULEEx, CCC, FM                       |   | CE, ULus 508  |

<sup>1)</sup> Inrush current can be limited using a SITOP inrush current limiter: [6EP4683-6LB00-0AY0](#) (max. 5 A, 100-240 V AC) or [6EP1967-2AA00](#) (max. 10 A, 100-480 V AC, 1 unit per phase required). Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified).

# DC/DC converter



| Technical data  | DC/DC converter                    |                                    |  |   |  |   |                                    |                                    |                                    |  |   |
|---|------------------------------------|------------------------------------|--|---|--|---|------------------------------------|------------------------------------|------------------------------------|--|---|
| Output voltage/current, type  | 24 V/2.5 A<br>PSU3400 uni          | 24 V/4 A,<br>PSU3400               | 12 V/8 A,<br>PSU3400   | 24 V/5 A,<br>PSU3400                        | 12 V/15 A,<br>PSU3400                                  | 24 V/10 A,<br>PSU3400                         | 24 V/3.5 A<br>NEC Class 2, PSU3400 | 24 V/5 A, PSU3400                  | 24 V/10 A, PSU3400                 | 24 V/20 A, PSU400M                                       |   |
| Article No.   | <a href="#">6EP3332-0TA00-0AY0</a> | <a href="#">6EP3133-0TA10-0AY0</a> | <a href="#">6EP3123-0TA00-0AY0</a>                               | <a href="#">6EP3133-0TA00-0AY0</a>          | <a href="#">6EP3124-0TA00-0AY0</a>                     | <a href="#">6EP3134-0TA00-0AY0</a>            | <a href="#">6EP3233-0TA10-0AY0</a> | <a href="#">6EP3233-0TA00-0AY0</a> | <a href="#">6EP3234-0TA00-0AY0</a> | <a href="#">6EP1536-3AA00</a>                            |   |
| Rated input voltage   | 24 V DC, 230 V AC                  | 12 V DC                            | 24 V DC  | 24 V DC                                     | 24 V DC  | 24 V DC                                       | 48 V DC                            | 48 V DC                            | 48 V DC                            | 600 V DC <sup>1)</sup>                                   |   |
| – Range   | 18...264 V DC,<br>88...264 V AC    | 9...18 V DC                        | 18...32 V DC, 14...18 V DC,<br>short-term with derating possible | 14... 32 V DC,<br>derating for 14...18 V DC | 28... 60 V DC, startup from 36 V, derating for 28–36 V | 300...900 V DC,<br>startup from approx. 340 V |                                    |                                    |                                    |  |   |
| Mains buffering   | > 5 ms                             | > 2 ms                             | > 5 ms   | > 5 ms                                      | > 5 ms   | > 5 ms  | > 5 ms                             | > 5 ms                             | > 5 ms                             | –  |   |
| Rated input current   | 1.9 A (at 24 V DC)                 | 9.0 A                              | 4.5 A  | 5.5 A                                       | 8.4 A  | 10.8 A  | 1.9 A                              | 2.7 A                              | 5.4 A                              | 0.85 A   |   |
| – Inrush current  | <15 A                              | <15 A                              | <15 A  | <15 A                                       | < 15 A   | < 15 A  | <15 A                              | <15 A                              | < 15 A                             | < 8 A  |   |
| – Recommended miniature circuit breaker (not necessary in case of feed-in by SITOP)<br>See also FAQ | 16 A charact. B or C               | 16 A characteristic B or C         | 10 A characteristic B or C                                       | 16 A characteristic B or C                  | 10 A characteristic B or C                             | 16 A characteristic B or C                    | 10 A characteristic B or C         | 16 A characteristic B or C         | –                                  | –  |   |
| Rated output voltage  | 24 V DC                            | 24 V DC                            | 12 V DC  | 24 V DC                                     | 12 V DC  | 24 V DC                                       | 24 V DC                            | 24 V DC                            | 24 V DC                            | 24 V DC  |   |
| – Tolerance   | ± 1%                               | ± 2%                               | ± 4%   | ± 2%  | ± 4%   | ± 2%  | ± 1%                               | ± 2%                               | ± 2%                               | ± 3%   |   |
| – Setting range   | 24...28 V DC                       | 24...28 V DC                       | 12...15.5 V DC   | 24...28 V DC                                | 12...15.5 V DC   | 24...28 V DC                                  | 24...28 V DC                       | 24...28 V DC                       | 24...28 V DC                       | 24...28.8 V DC   |   |
| Rated output current  | 2.5 A                              | 4 A                                | 8 A  | 5 A   | 15 A   | 10 A  | 3.5 A                              | 5 A                                | 10 A                               | 20 A   |   |
| – Overload behavior   | 3.5 A                              | –                                  | –  | 6 A up to 40 °C                             | –  | 12 A up to 40 °C                              | –                                  | 6 A up to 40 °C                    | 12 A up to 40 °C                   | 30 A   |   |
| – Derating  | –                                  | from +60 °C (2%/K)                 | from +60 °C (2%/K)   | from +60 °C (2%/K)                          | from +60 °C (2%/K)                                     | from +60 °C (2%/K)                            | –                                  | from +60 °C (2%/K)                 | from +60 °C (2%/K)                 | from +60 °C (5.5 %/K),<br>300...400 V DC, 824...900 V DC |   |
| Efficiency at rated values, approx.   | 85 %                               | 89%                                | 89.4%  | 92.5%                                       | 91%  | 93%   | 90.4%                              | 91.6%                              | 93.5%                              | 95 %   |   |
| Signaling contact “DC o. k.”  | No                                 | No                                 | No   | No  | Yes  | Yes   | No                                 | No                                 | Yes                                | Yes  |   |
| Parallel switching  | Yes, 2 units                       | Yes, 2 units                       | Yes, 2 units   | Yes, 2 units                                | Yes, 2 units   | Yes, 2 units                                  | –                                  | Yes, 2 units                       | Yes, 2 units                       | Yes, output line switchable                              |   |
| Electronic short-circuit protection   | Yes, restart                       |                                    |  |   |  |   |                                    |                                    |                                    | Yes, constant current or latching shutdown selectable    |   |
| EMF suppression (EN 55022)  | Class B                            | Class B                            | Class B  | Class B                                     | Class B  | Class B                                       | Class B                            | Class B                            | Class B                            | Class A (emission)                                       |   |
| Line harmonics limitation (EN 61000-3-2)  | Not applicable                     | Not applicable                     | Not applicable   | Not applicable                              | Not applicable   | Not applicable                                | Not applicable                     | Not applicable                     | Not applicable                     | No   |   |
| Degree of protection (EN 60529)   | IP20                               | IP20                               | IP20   | IP20  | IP20   | IP20  | IP20                               | IP20                               | IP20                               | IP20   |   |
| Ambient temperature   | –25...+70 °C                       | –25...+70 °C                       | –25...+70 °C   | –25...+70 °C                                | –25...+70 °C   | –25...+70 °C                                  | –25...+70 °C                       | –25...+70 °C                       | –25...+70 °C                       | –25...+70 °C   |   |
| Installation  | DIN rail                           |                                    |  |   |  |   |                                    |                                    |                                    |  |   |
| Dimensions (W x H x D) in mm  | 32 x 100 x 100                     |                                    |  |   | 42 x 125 x 120   | 42 x 125 x 120                                | 32 x 100 x 100                     | 32 x 100 x 100                     | 42 x 125 x 120                     | 90 x 125 x 125   |   |
| Weight approx.  | 0.3 kg                             | 0.4 kg                             | 0.4 kg   | 0.4 kg                                      | 0.6 kg   | 0.6 kg  | 0.4 kg                             | 0.4 kg                             | 0.6 kg                             | 1.2 kg   |   |
| Certification   | CE, cULus                          |                                    |  |   |  |   |                                    |                                    |                                    |  | CE, CB, cULus, DNV, 6EP3233-0TA10-0AY0: NEC Class 2 |

<sup>1)</sup>The SITOP PSU400M power supply is designed for connection to a DC link power system, which means that the input voltage rises and falls successively while charging the DC link.

Hot plug-in and hot plug-out of the input voltage above 450 V is not allowed. The [6EP1566-3AA00](#) ballast device for limiting the voltage rise must be used for this purpose.






Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified).

# SITOP in special designs and applications



| Technical data   | Wall mounting                             |                        |                       |   |   |
|--|---|------------------------|-----------------------|---|---|
| Output voltage/current, type   | 12 V/3 A, PSU100D                         | 24 V/2,2 A, PSU100D    | 12 V/8,5 A, PSU100D   | 24 V/6,25 A, PSU100D                                    | 24 V/14,6 A, PSU100D                                    |
| Article No.  | 6EP1321-1LD01                             | 6EP1331-1LD01          | 6EP1322-1LD01         | 6EP1333-1LD01   | 6EP1334-1LD01   |
| Rated input voltage  | 100-240 V AC                              | 100-240 V AC           | 100-240 V AC          | 100-120/200-240 V AC<br>(Voltage range selector switch) | 100-120/200-240 V AC<br>(Voltage range selector switch) |
| – Range  | 90...264 V AC                             | 90...264 V AC          | 90...264 V AC         | 90...132/180...264 V AC                                 | 90...132/180...264 V AC                                 |
| Mains buffering  | > 16 ms (at 115/230 V)                    | > 12 ms (at 115/230 V) | > 9 ms (at 115/230 V) | > 30 ms (at 115/230 V)                                  | > 20 ms (at 115/230 V)                                  |
| Rated line frequency   | 50/60 Hz                                  | 50/60 Hz               | 50/60 Hz              | 50/60 Hz  | 50/60 Hz  |
| Rated input current  | 0.85-0.5 A                                | 1.2-0.7 A              | 2.2-1.2 A             | 3.0-1.6 A   | 6.8-3.4 A   |
| – Inrush current <sup>1)</sup>                                       | < 45 A                                    | < 45 A                 | < 55 A                | < 60 A  | < 60 A  |
| – Recommended miniature circuit breaker <a href="#">See also FAQ</a> | 16 A characteristic B                     |                        |                       |   |   |
| Rated output voltage   | 12 V DC                                   | 24 V DC                | 12 V DC               | 24 V DC   | 24 V DC   |
| – Tolerance  | +/- 1%                                    | +/- 1%                 | +/- 1%                | +/- 1%  | +/- 1%  |
| – Setting range  | 10.8... 13.2 V DC                         | 21.6... 26.4 V DC      | 10.8... 13.2 V DC     | 21.6... 26.4 V DC                                       | 21.6... 26.4 V DC                                       |
| Rated output current   | 3 A                                       | 2.2 A                  | 8.5 A                 | 6.25 A  | 14.6 A  |
| – Derating   | from +50°C (2%/ K)                        | from +50°C (2%/ K)     | from +50°C (2%/ K)    | from +50°C (2%/ K)                                      | from +50°C (2%/ K)                                      |
| Efficiency at rated values, approx.                                  | 86 %                                      | 88 %                   | 87.5 %                | 89 %  | 87 %  |
| Signaling contact "DC o. k."   | No  | No                     | No                    | No  | No  |
| Remote On/Off  | No  | No                     | No                    | No  | No  |
| Parallel switching   | No  | No                     | No                    | No  | No  |
| Electronic short-circuit protection                                  | Yes, restart                              |                        |                       |   |   |
| EMF suppression (EN 55022)   | Class B                                   |                        |                       |   |   |
| Line harmonics limitation (EN 61000-3-2)                             | Yes                                       | Yes                    | Yes                   | No  | Yes   |
| Degree of protection (EN 60529)                                      | IP 00                                     |                        |                       |   |   |
| Ambient temperature  | -25°C...+70°C                             |                        |                       |   |   |
| Installation   | Wall mounting, variable mounting position |                        |                       |   |   |
| Dimensions (W x H x D) in mm   | 82 x 99 x 29                              | 82 x 99 x 29           | 97 x 129 x 30         | 97 x 129 x 30   | 115 x 215 x 30  |
| Weight approx.   | 0.17 kg                                   | 0.18 kg                | 0.29 kg               | 0.36 kg   | 0.84 kg   |
| Certification  | CE, cULus, cURus, BIS                     |                        | CE, cULus, cURus, BIS |   | CE, cULus, cURus, BIS                                   |

<sup>1)</sup>Inrush current can be limited using a SITOP inrush current limiter: 6EP4683-6LB00-0AY0 (max. 5 A, 100-240 V AC). Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified).

|  |  |  |  |  |                                      |  |  |  |                                    |  |
|---|--|---|--|---|--------------------------------------|---|--|---|------------------------------------|--|
| Two outputs   |  | Flexible output 0–52 V  |  | High degree of protection   |                                      | Slim design   |  | Flat design Slim design Power supplies for charging batteries                       |                                    |  |
| 2 x 15 V/3.5 A, SITOP PSU3600   |  | 3...52 V/10A, SITOP PSU3600   |  | 24 V/5 A, PSU100P   | 24 V/8 A, PSU100P <sup>1)</sup>      | 24 V/5 A, PSU300E   | 48 V/5 A, PSU100E                        | 12 V/20 A, PSU3800  | 24 V/17 A, PSU3800                 | 24 V/30 A, 40 A, PSU3800   |
| 6EP3323-0SA00-0BY0  |  | 6EP3343-0SA00-0AY0  |  | 6EP1333-7CA10   | 6EP1334-7CA10                        | 6EP1433-0AA00   | 6EP3344-0SB00-0AY0                       | 6EP3424-8UB00-0AY0  | 6EP3436-8UB00-0AY0                 | 6EP3437-8UB00-0AY0 <sup>1)</sup>                                   |
| 120–230 V AC, 110–220 V DC<br>85...264 V AC, DC 88...250 V                        |  | 120–230 V AC, 110–220 V DC<br>85...264 V AC, DC 88...250 V                        |  | 120/230 V AC, automatic range switching<br>85... 132/170... 264 V AC              |                                      | 400 V 3 AC<br>320...480 V 3 AC  | 120/230 V AC<br>85... 132/170...264 V AC | 400–500 V 3 AC<br>320...575 V 3 AC  | 400–500 V 3 AC<br>320...575 V 3 AC | 400–500 V 3 AC<br>320...575 V 3 AC                                 |
| > 80 ms (at 230 V AC)   |  | > 80 ms (at 230 V AC)   |  | > 40 ms (at I <sub>Out rated</sub> )  | > 40 ms (at I <sub>Out rated</sub> ) | > 50 ms (at 400 V)  | > 20 ms (at 93/187 V)                    | > 15 ms (at 400 V)  | > 15 ms (at 400 V)                 | > 10 ms (at 400 V)   |
| 50/60 Hz  |  | 50/60 Hz  |  | 50/60 Hz  | 50/60 Hz                             | 50/60 Hz  | 50/60 Hz                                 | 50/60 Hz  | 50/60 Hz                           | 50/60 Hz   |
| 2.2–1.3 A   |  | 2.6–1.3 A   |  | 2.25/1.24 A   | 3.5/1.52 A                           | 0.36 A  | 4.4–2 A                                  | 0.7–0.6 A   | 1.2–1.0 A                          | 2.1–1.7 A  |
| < 35 A  |  | < 35 A  |  | < 15 A  | < 15 A                               | < 15 A  | < 58 A                                   | < 18 A  | < 18 A                             | < 13 A   |
| 6–10 A characteristic C   |  | 6–10 A characteristic C   |  | ab 6 A charact. C/B   | ab 6 A charact. C/B                  | 6–10 A charact. C   | 10 A charact. C                          | 6–16 A charact. C 3-ph. coupled or 3RV2011-1DA10 or 3RV2711-1DD10                   |                                    | 10–16 A charact. C 3-ph. coupled or 3RV2011-1DA10 or 3RV2711-1DD10 |
| 2 x 15 V DC   |  | 24 V DC   |  | 24 V DC   | 24 V DC                              | 24 V DC   | 48 V DC                                  | 12 V DC   | 24 V DC                            | 24 V DC  |
| ± 1%  |  | ± 1%  |  | ± 3%  | ± 3%                                 | ± 3%  | ± 3%                                     | ± 3%  | ± 3%                               | ± 3%   |
| 12...28 V DC  |  | 0...52 V DC <sup>2)</sup>   |  | –   | –                                    | 24...29 V DC  | 48...54 V DC                             | 12...14 V DC  | 24...28.8 V DC                     | 24...28.8 V DC   |
| 2 x 3.5 A (max. 60 W per output)  |  | 2–10 A (max. 120 W)   |  | 5 A   | 8 A                                  | 5 A   | 5 A<br>from +60 °C                       | 20 A  | 17 A<br>from +60 °C (1.7%/K)       | 30 A/40 A switchable<br>from +60 °C (5%/K)                         |
| –   |  | –   |  | –   | –                                    | –   | –  | –   | –                                  | –  |
| 88%   |  | 88%   |  | 90%   | 93%                                  | 90%   | 92%                                      | 94%   | 94%                                | 94%  |
| No  |  | Yes, and current monitor  |  | Yes   | Yes                                  | Yes   | Yes                                      | Yes   | Yes                                | Yes  |
| No  |  | No  |  | No  | No                                   | No  | No                                       | Yes   | Yes                                | Yes  |
| Yes   |  | Yes   |  | Yes, 2 units  | Yes, 2 units                         | No  | Yes, 2 units                             | Yes   | Yes                                | Yes  |
| Yes, restart  |  | Yes, constant current   |  | Yes, restart  | Yes, restart                         | Yes, restart  | Yes, restart                             | Yes, constant current or latching shutdown selectable                               |                                    |  |
| Class B   |  | Class B   |  | Class B   | Class B                              | Class A   | Class A                                  | Class B   | Class B                            | Class B  |
| Yes   |  | Yes   |  | Yes   | Yes                                  | Yes   | Yes                                      | Yes   | Yes                                | Yes  |
| IP20  |  | IP20  |  | IP67, UL: enclosure type 5 indoor   |                                      | IP20  | IP20                                     | IP20  | IP20                               | IP20   |
| –25...+70 °C  |  | –25...+70 °C  |  | –25...+60 °C  | –25...+60 °C                         | 0...+60 °C  | –25...+70 °C                             | –25...+70 °C  | –25...+70 °C                       | –25...+70 °C   |
| DIN rail  |  | DIN rail  |  | Screw mounting  | Screw mounting                       | DIN rail  | DIN rail                                 | DIN rail  | DIN rail                           | DIN rail   |
| 42 x 125 x 125  |  | 42 x 125 x 135  |  | 120 x 181 x 60,5  |                                      | 42 x 125 x 125  | 42 x 125 x 125                           | 70 x 125 x 125  | 70 x 125 x 125                     | 135 x 145 x 150  |
| 0.55 kg   |  | 0.55 kg   |  | 1.1 kg  | 1.3 kg                               | 0.6 kg  | 0.5 kg                                   | 1.2 kg  | 1.2 kg                             | 3.3 kg   |
| CE, cULus, NEC Class 2  |  | CE, CB, cULus, RCM  |  | CE, cULus   | CE, cULus                            | CE, CB, cULus   | CE, CB, cULus                            | CE, CB, cULus, RCM, DNV, ABS  |                                    | CE, CB, cULus, SEMI F47, RCM, DNV, ABS                             |

<sup>1)</sup> Inrush current can be limited using a SITOP inrush current limiter: [6EP4683-6LB00-0AY0](#) (max. 5 A, 100–240 V AC) or [6EP1967-2AA00](#) (max. 10 A, 100–480 V AC, 1 unit per phase required).

<sup>2)</sup> Via analog control voltage signal 0...2.5 V

Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified).

# SITOP expansion modules

## to increase system availability



| Technical data                        | Redundancy   |  |   |   |  |  |
|---------------------------------------|--|--|---|---|--|--|
| SITOP                                 | SITOP RED1200 redundancy module  |  |   | SITOP PSE202U redundancy module   |  |  |
| Article No.                           | <a href="#">6EP4346-7RB00-0AX0</a>   | <a href="#">6EP4347-7RB00-0AX0</a>   | <a href="#">6EP4348-7RB00-0AX0</a>  | <a href="#">6EP1964-2BA00</a>   | <a href="#">6EP1962-2BA00</a>  | <a href="#">6EP1961-3BA21</a>  |
| Article No. Ex version                |  | <a href="#">6EP4347-7RC00-0AX0</a>   |   |   |  |  |
| Rated input voltage – Range           | 12 V, 24 V, 48 V DC<br>10...58 V DC  | 12 V, 24 V, 48 V DC<br>10...58 V DC  | 12 V, 24 V, 48 V DC<br>10...58 V DC   | 24 V DC<br>19...29 V DC   | 24 V DC<br>19...29 V DC  | 24 V DC<br>24...28.8 V DC  |
| Brief description of product/function | Module for redundancy mode and for decoupling power supplies with output voltages from 12 to 48 V, e.g. for series connection to increase voltage to up to 96 V or parallel connection of more than 2 power supplies to enhance performance. |  |   | Module for redundancy mode; floating relay contact and green LED for signaling "Infeed 1 and 2 o.k.", switching threshold adjustable between 20 and 25 V DC |  |  |
| Possible combinations                 | Decoupling of two 12 V to 48 V power supplies with output currents up to 10 A or one 20-A power supply per redundancy module   | Decoupling of two 12 V to 48 V power supplies with output currents up to 20 A or one 40-A power supply per redundancy module | Decoupling of two 12 V to 48 V power supplies with output currents up to 40 A | Decoupling of two 24-V power supplies up to 5 A or one 10-A power supply per redundancy module  | Decoupling and limitation of the output to Class-2 limit (100 VA) of two 24-V power supplies 5 to 40 A | Decoupling of two 24-V power supplies 5 A to 20 A or one 40-A power supply per redundancy module |
| Rated output current                  | 20 A (total output current)  | 40 A (total output current)  | 80 A (total output current)   | 10 A (total output current)   | 3.5 A <sup>1)</sup>  | 40 A (total output current)  |
| Reverse voltage protection            | 170 V DC   | 170 V DC   | 170 V DC  | 52 V DC   | 52 V DC  | 52 V DC  |
| Efficiency at rated values, approx.   | 97.5 %   | 97.5 %   | 97.5 %  | 97 %  | 95 %   | 97 %   |
| EMF suppression (EN 55022)            | Class B  | Class B  | Class B   | Class B   | Class B  | Class B  |
| Degree of protection (EN 60529)       | IP20   | IP20   | IP20  | IP20  | IP20   | IP20   |
| Terminals                             | Push-in  | Push-in  | Push-in   | Screw terminals   | Screw terminals  | Screw terminals  |
| Ambient temperature                   | -25...+70 °C   | -25...+70 °C   | -25...+70 °C  | -20...+70 °C  | -20...+70 °C   | -25...+60 °C   |
| Dimensions (W x H x D) in mm          | 35 x 135 x 125   | 45 x 135 x 125   | 45 x 135 x 155  | 30 x 80 x 100   | 30 x 80 x 100  | 70 x 125 x 125   |
| Weight approx.                        | 0.35 kg  | 0.35 kg  | 0.99 kg   | 0.125 kg  | 0.125 kg   | 0.5 kg   |
| Certification                         | CE, CB, cULus, RCM, DNV, ABS. Ex version: ATEX, IECEx, ULEx, CCC   |  |   | CE, cULus, RCM  | CE, cULus, RCM, NEC Class 2  | CE, cULus, RCM, DNV, ABS   |

<sup>1)</sup> Max. 8 A net current in event of fault in accordance with NEC Class 2 Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified).



| Technical data  | Monitoring   |  |   |  |  |                 |
|---|--|--|---|--|--|-----------------|
| SITOP   | SITOP SEL1600 selectivity system with IO-Link  |  | SITOP PSE200U selectivity module with common signaling contact  |  | SITOP PSE200U selectivity module with single channel signaling   |                 |
| Type  | Basic unit   |  | Expansion module  |  |  |                 |
| Article No.   | 6EP4437-8FB00-4CY0   |  | 6EP4437-8FB00-0CY0  |  | 6EP1961-2BA11  | 6EP1961-2BA21   |
| Article No. with NEC Class 2  |  |  |   |  | 6EP1961-2BA51  | 6EP1961-2BA61   |
| Rated input voltage/range   | 24 V DC/20.4...30 V DC   |  |   |  | 24 V DC/22...30 V DC   |                 |
| Brief product description   | Selectivity system consisting of a basic unit and up to 9 expansion modules for distributing the 24 V supply to up to 40 load circuits; selective disconnection of faulty circuits, rated current adjustable on an individual basis; can be used universally for all power supplies. |  |   |  | Module for distributing the 24 V supply to up to four load circuits and monitoring them for overload; selective disconnection of faulty circuits, rated current individually adjustable; can be used universally for all power supplies. |                 |
| Switch-off characteristic   | Switching switch-off characteristic with short-term current limitation.  |  |   |  | Current limitation to 150% of the set threshold value, then shutdown. Voltage dip below 20 V not possible, therefore also suitable for loads that do not meet the PLC standard.  |                 |
| Status indication per output  | 3-color LED: green – connected; yellow – manually disconnected; red – disconnected due to overload. Display on the basic unit to indicate the status of all outputs incl. expansion modules (up to 9)  |  |   |  | 3-color LED: green – connected, yellow – manually disconnected, red – disconnected due to overcurrent  |                 |
| Interface   | IO-Link interface for extensive parameterization and transmission of diagnostic and maintenance information to the automation system. Display for on-site settings and diagnostics.  |  | System-internal data interface to the basic unit for parameterization and diagnostics via IO-Link or display.                                   |  | Common signaling contact. Voltage measuring points for current value per output (1 V ± 1 A)  |                 |
| Reset, outputs switched on/off  | Each output, IO-Link, and 24 V signal reset via push-button. Each output and IO-Link switched on/off via push-button   |  |   |  | Remote reset with 24 V signal. Each output reset and switched on/off via push-button   |                 |
| Individual load circuits switched on sequentially   | 0 ms (simultaneously), 25 ms, 100 ms or load-optimized (if the previous output is again less than the set rated value)   |  |   |  |  |                 |
| Rated output current  | 4 x 10 A   |  | 4 x 10 A  |  | 4 x 3 A  | 4 x 10 A        |
| – Setting range   | 0.5...10 A   |  | 0.5...10 A  |  | 0.5...3 A  | 3...10 A        |
| Efficiency at rated values, approx.   | typ. 98%   |  | typ. 98%  |  | 97%  | 99%             |
| Parallel switching of 2 outputs   | Yes, 2 outputs for 20 A  |  | Yes, 2 outputs for 20 A   |  | No   | No              |
| Electronic short-circuit protection   | Yes  |  | Yes   |  | Yes  | Yes             |
| Radio interference suppression (EN 55022)   | Class B  |  | Class B   |  | Class B  | Class B         |
| Degree of protection (EN 60529)   | IP20   |  | IP20  |  | IP20   | IP20            |
| Terminals   | Screw terminals and push-in  |  | Screw terminals   |  | Screw terminals  | Screw terminals |
| Ambient temperature   | –40...+70 °C   |  | –40...+70 °C  |  | –25...+60 °C   | –25...+60 °C    |
| Dimensions (W x H x D) in mm  | 63 x 145 x 125   |  | 45 x 145 x 125  |  | 72 x 80 x 72   | 72 x 80 x 72    |
| Weight approx.  | 0.4 kg   |  | 0.4 kg  |  | 0.2 kg   | 0.2 kg          |
| Certification   | CE, CB, cULus, UR, cCSAus, RCM, DNV  |  |   |  | CE, CB, cULus, UR, cCSAus, RCM, DNV, 6EP1961-2BA51/6EP1961-2BA61: NEC Class 2  |                 |
| Accessories: SITOP SEL1600 connection set, consisting of a COM connecting line and a 24 V wiring bracket for connecting ... | ... the SEL1600 basic unit to the SITOP PSU8400 power supply<br>– 20 A: <a href="#">6EP4990-8KK10-0XU0</a><br>– 40 A: <a href="#">6EP4990-8KK20-0XU0</a>   |  | ... the expansion module to the selectivity system:<br>– included with the expansion module.<br>– spare part <a href="#">6EP4990-8KK00-0XU0</a> |  |  |                 |

Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

# SITOP expansion modules

## to increase system availability



| Technical data                                    |   | Monitoring                         |                                    |                                    |  |                                    |                                    |
|---|---|------------------------------------|------------------------------------|------------------------------------|--|------------------------------------|------------------------------------|
| SITOP   | SITOP SEL1200 selectivity module with switching characteristic  |                                    |                                    |                                    | SITOP SEL1400 selectivity module with current limiting characteristic  |                                    |                                    |
| Article No.                                       | <a href="#">6EP4437-7FB00-3CX0</a>  | <a href="#">6EP4437-7FB00-3DX0</a> | <a href="#">6EP4438-7FB00-3DX0</a> | <a href="#">6EP4448-7FB00-3CX0</a> | <a href="#">6EP4437-7EB00-3CX0</a>   | <a href="#">6EP4437-7EB00-3DX0</a> | <a href="#">6EP4438-7EB00-3DX0</a> |
| Article No. with NEC Class 2                      |   |                                    |                                    |                                    |  |                                    |                                    |
| Article No. Ex version                            |   |                                    | <a href="#">6EP4438-7FC00-3DX0</a> |                                    |  |                                    | <a href="#">6EP4438-7EC00-3DX0</a> |
| Rated input voltage/range                         | 24 V DC/20,4...30 V DC  |                                    |                                    | 48 V DC/40...56 V DC               | 24 V DC/20,4...30 V DC   |                                    |                                    |
| Brief product description                         | Module for distributing the DC-supply over up to four or eight load circuits and their monitoring for overload; selective shutdown of faulty load circuits, rated current individually adjustable; universal use for all power supplies         |                                    |                                    |                                    |  |                                    |                                    |
| Switch-off characteristic                         | Switching – for standard protection. Release time depending on overcurrent  |                                    |                                    |                                    | Current limiting – for increased safeguarding requirements; current limitation to 150 % (110 % for NEC Class 2 variants) of the set threshold value, then shutdown. Voltage dip below 20 V not possible, therefore also suitable for loads that do not meet the PLC standard |                                    |                                    |
| Status indication per output                      | 3-color LED: green – connected, yellow – manually disconnected, red – disconnected due to overcurrent   |                                    |                                    |                                    |  |                                    |                                    |
| Signaling interface                               | Diagnostics interface for common signaling or single-channel diagnostics. Analysis of single-channel diagnostics via SIMATIC S7 function block: current, set current threshold value, status (on/off), reason for disconnection (if applicable) |                                    |                                    |                                    |  |                                    |                                    |
| Reset, outputs switched on/off                    | Remote reset with 24-V signal. Reset and each output switched on/off via push button  |                                    |                                    |                                    |  |                                    |                                    |
| Individual load circuits switched on sequentially | Load-optimized (previous output less than set rated value) + 25 ms, + 200 ms, or + 500 ms   |                                    |                                    |                                    |  |                                    |                                    |
| Rated output current                              | 4 x 10 A  | 8 x 5 A                            | 8 x 10 A                           | 4 x 10 A                           | 4 x 10 A   | 8 x 5 A                            | 8 x 10 A                           |
| – Setting range                                   | 2...10 A  | 1...5 A                            | 2...10 A                           | 1...10 A                           | 2...10 A   | 1...5 A                            | 2...10 A                           |
| Efficiency at rated values, approx.               | typ. 98%  | typ. 98%                           | typ. 98%                           | typ. 99%                           | typ. 98%   | typ. 99%                           | typ. 98%                           |
| Parallel switching of 2 outputs                   | Yes (max. 15 A)   | Yes (max. 7,5 A)                   | Yes (max. 15 A)                    | Yes (max. 15 A)                    | Yes (max. 15 A)  | Yes (max. 7.5 A)                   | Yes (max. 15 A)                    |
| Electronic short-circuit protection               | Yes   | Yes                                | Yes                                | Yes                                | Yes  | Yes                                | Yes                                |
| Radio interference suppression (EN 55022)         | Class B   | Class B                            | Class B                            | Class B                            | Class B  | Class B                            | Class B                            |
| Degree of protection (EN 60529)                   | IP20  | IP20                               | IP20                               | IP20                               | IP20   | IP20                               | IP20                               |
| Terminals   | Push-in   | Push-in                            | Push-in                            | Push-in                            | Push-in  | Push-in                            | Push-in                            |
| Ambient temperature                               | -25...+70 °C  | -25...+70 °C                       | -25...+70 °C                       | -25...+70 °C                       | -25...+70 °C   | -25...+70 °C                       | -25...+70 °C                       |
| Dimensions (W x H x D) in mm                      | 45 x 135 x 125  | 45 x 135 x 125                     | 45 x 135 x 125                     | 45 x 135 x 125                     | 45 x 135 x 125   | 45 x 135 x 125                     | 45 x 135 x 125                     |
| Weight approx.                                    | 0.3 kg  | 0.3 kg                             | 0.3 kg                             | 0.3 kg                             | 0.3 kg   | 0.4 kg                             | 0.5 kg                             |
| Certification                                     | CE, CB, cULus, UR, cCSAus, RCM, DNV, pending: ABS. Ex version: ATEX, IECEx, ULEx, CCC   |                                    |                                    |                                    |  |                                    |                                    |

Specifications at rated input voltage and ambient temperature at +25 °C (unless otherwise specified)

|                                 | NEW  | NEW   |  |  |
|---------------------------------|--|---|--|--|
|                                 |   |   |   |   |
| Technical data                  |  |   | Mains buffering up to the seconds range  |  |
| SITOP                           | PBM1200 power boost module   | CHO1400 chopper module  | SITOP PSE201U buffer module <sup>1)</sup> ,<br>200 ms/40 A   | SITOP BUF1200 buffer module,<br>300 ms/40 A  |
| Article No.                     | <a href="#">6EP4240-7HB00-0AX0</a>   | <a href="#">6EP4548-7XB00-3AX0</a>  | <a href="#">6EP1961-3BA01</a>  | <a href="#">6EP4231-7HB00-0AX0</a>   |
| Article No. Ex version          |  |   |  | <a href="#">6EP4231-7HC00-0AX0</a>   |
| Rated input voltage             | 24-28 V or 48-56 V DC  | 24-28 V or 48-56 V DC   | 24 V DC  | 24 V DC  |
| – Range                         | 24...28 V/48...56 V DC   | 24...28 V/48...56 V DC  | 24...28.8 V DC   | 20...30 V DC   |
| Description                     | The module delivers a high peak current for the electromagnetic tripping of circuit breakers characteristic B/C: 4 A/6 A/8 A/10 A/13 A to support SITOP basic and standard 24 V/20 A, 40 A and 48 V/10 A, 20 A power supplies. | Module to protect 24 V and 48 V power supplies and add-ons from critical overvoltages at the output, such as those caused by regenerative motors. Reduction to 1000 W/1800 Ws possible via internal braking resistors, doubling of the power/energy possible through an additional chopper module. Response threshold 2 V or 4 V adjustable via output voltage. | Module for buffering during short power failures; parallel connection at output of 24-V power supplies <sup>1)</sup> . Buffering time 200 ms at 40 A up to 1.6 s at 5 A load current; multiplication possible through parallel connection; maximum buffering time 10 s | Module for buffering during short power failures; parallel connection at output of 24-V power supplies. Buffering time 300 ms at 40 A up to 2.4 s at 5 A load current; multiplication possible through parallel connection |
| Status indicator                | Green LED for “Ready for operation” Red LED for “Reverse polarity”   | Green LED for “Ready for operation” LED for operating status, energy reserve: green – active, >50%, yellow – active, <50%, inactive   | Green LED for “U <sub>in</sub> > 20.5 V”   | Green LED for “Ready for buffering”  |
| Signaling interface             | No   | Diagnostic interface  | No   | No   |
| Parallel switching              | Yes  | Yes   | Yes  | Yes  |
| EMF suppression (EN 55022)      | Class B  | Class B   | Class B  | Class B  |
| Degree of protection (EN 60529) | IP20   | IP20  | IP20   | IP20   |
| Ambient temperature             | –40 ...+70 °C  | –40 ...+70 °C   | –25 ...+70 °C  | –25 ...+70 °C  |
| Dimensions (W x H x D) in mm    | 45 x 135 x 125   | 45 x 135 x 125  | 70 x 125 x 125   | 70 x 135 x 155   |
| Weight approx.                  | 0.4 kg   | 0.87 kg   | 1.2 kg   | 1.5 kg   |
| Certification                   | CE, CB, cULus, RCM, pending: DNV, ABS  |   | CE, CB, cULus, RCM, DNV, ABS   |  |
|                                 |  |   |  | CE, CB, cULus, RCM, DNV, ABS. Ex version: ATEX, IECEx, ULEx, CCC   |

<sup>1)</sup> Parallel switching at output of SITOP PSU8200, PSU6200, and SITOP smart 24 V power supplies (except 6EP1 336-2BA10) Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified).

# Uninterruptible power supplies – **SITOP UPS500** maintenance-free DC UPS with capacitor technology



| Technical data                        | Mains buffering up to the minutes range                             |                                     |   |
|---------------------------------------|---|-------------------------------------|---|
| SITOP                                 | UPS500S – basic unit 15 A   |                                     | UPS501S – expansion module  |
| Buffer time/Energy                    | 2.5 kW <sub>s</sub>   | 5 kW <sub>s</sub>                   | 5 kW <sub>s</sub>   |
| Article No.                           | <a href="#">6EP1933-2EC41</a>                                       | <a href="#">6EP1933-2EC51</a>       | <a href="#">6EP1935-5PG01</a>   |
| Article No. Ex version                |   | <a href="#">6EP1 933-2EC51-8AA0</a> | <a href="#">6EP1935-5PG01-8AA0</a>  |
| Input voltage                         | 24 V DC, 22...29 V, infeed from SITOP 24 V                          |                                     | Infeed from basic unit  |
| Rated input current                   | 15.2 A + approx. 2.3 A in charging mode                             |                                     |   |
| Rated output voltage                  | In buffer and normal mode 24 V DC ± 3 %                             |                                     | Description: expansion module for extending the buffering time, up to three units can be switched in parallel with one UPS500S basic unit |
| Rated output current                  | 15 A, charging current 1 A (factory setting) or 2 A selectable      |                                     |   |
| Efficiency at rated values, approx.   | 97.5 %  |                                     |   |
| Overload and short-circuit protection | Electronic, automatic restart                                       |                                     |   |
| Parallel switching                    | No  |                                     | Yes, up to three units  |
| EMF suppression (EN 55022)            | Class B   | Class B                             | Class B   |
| Degree of protection (EN 60529)       | IP20  | IP20                                | IP20  |
| Ambient temperature                   | 0...+60 °C  | 0...+60 °C                          | 0...+60 °C  |
| Dimensions (W x H x D) in mm          | 120 x 125 x 125   | 120 x 125 x 125                     | 70 x 125 x 125  |
| Weight approx.                        | 1.0 kg  | 1.0 kg                              | 0.7 kg  |
| Certification                         | CE, CB, cULus, RCM, DNV, ABS. Ex-Varianten: ATEX, IECEx, ULEEx, CCC |                                     | CE, CB, cULus, RCM, DNV, ABS. Ex-Varianten: ATEX, IECEx, ULEEx, CCC   |

<sup>1)</sup> Parallel switching at output of SITOP PSU8200, PSU6200, and SITOP smart 24 V power supplies (except [6EP1 336-2BA10](#)) Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified).

# Buffering times and charging times **SITOP UPS500**



| Configurations SITOP UPS500S/501S |                     |                   |                       |                       |                       |                       |                       |                       |
|-----------------------------------|---------------------|-------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Basic unit                        | 2.5 kW <sub>s</sub> | 5 kW <sub>s</sub> | 2.5 kW <sub>s</sub>   | 5 kW <sub>s</sub>     | 2.5 kW <sub>s</sub>   | 5 kW <sub>s</sub>     | 2.5 kW <sub>s</sub>   | 5 kW <sub>s</sub>     |
| Expansion modules                 | –                   | –                 | 1 x 5 kW <sub>s</sub> | 1 x 5 kW <sub>s</sub> | 2 x 5 kW <sub>s</sub> | 2 x 5 kW <sub>s</sub> | 3 x 5 kW <sub>s</sub> | 3 x 5 kW <sub>s</sub> |
| Total energy                      | 2.5 kW <sub>s</sub> | 5 kW <sub>s</sub> | 7.5 kW <sub>s</sub>   | 10 kW <sub>s</sub>    | 12.5 kW <sub>s</sub>  | 15 kW <sub>s</sub>    | 17.5 kW <sub>s</sub>  | 20 kW <sub>s</sub>    |
| Buffering times                   |                     |                   |                       |                       |                       |                       |                       |                       |
| Load current                      |                     |                   |                       |                       |                       |                       |                       |                       |
| 0.5 A                             | 134 s               | 236 s             | 390 s                 | 478 s                 | 632 s                 | 748 s                 | 851 s                 | 1007 s                |
| 0.8 A                             | 90 s                | 167 s             | 266 s                 | 346 s                 | 440 s                 | 527 s                 | 580 s                 | 706 s                 |
| 1 A                               | 75 s                | 138 s             | 219 s                 | 296 s                 | 365 s                 | 414 s                 | 490 s                 | 572 s                 |
| 2 A                               | 38 s                | 76 s              | 122 s                 | 156 s                 | 203 s                 | 230 s                 | 265 s                 | 306 s                 |
| 3 A                               | 26 s                | 52 s              | 82 s                  | 106 s                 | 136 s                 | 159 s                 | 186 s                 | 213 s                 |
| 4 A                               | 19 s                | 39 s              | 61 s                  | 81 s                  | 101 s                 | 120 s                 | 139 s                 | 160 s                 |
| 5 A                               | 15 s                | 31 s              | 49 s                  | 65 s                  | 81 s                  | 95 s                  | 111 s                 | 130 s                 |
| 6 A                               | 12 s                | 26 s              | 40 s                  | 55 s                  | 67 s                  | 80 s                  | 94 s                  | 106 s                 |
| 7 A                               | 10 s                | 21 s              | 34 s                  | 47 s                  | 58 s                  | 69 s                  | 81 s                  | 82 s                  |
| 8 A                               | 8 s                 | 18 s              | 29 s                  | 40 s                  | 50 s                  | 59 s                  | 69 s                  | 79 s                  |
| 10 A                              | 6 s                 | 15 s              | 23 s                  | 32 s                  | 39 s                  | 47 s                  | 54 s                  | 62 s                  |
| 12 A                              | 4 s                 | 12 s              | 19 s                  | 26 s                  | 32 s                  | 38 s                  | 44 s                  | 52 s                  |
| 15 A                              | 3 s                 | 9 s               | 14 s                  | 20 s                  | 25 s                  | 30 s                  | 35 s                  | 40 s                  |
| Charging times                    |                     |                   |                       |                       |                       |                       |                       |                       |
| Charging current                  |                     |                   |                       |                       |                       |                       |                       |                       |
| 2 A                               | 54 s                | 120 s             | 158 s                 | 223 s                 | 263 s                 | 318 s                 | 355 s                 | 417 s                 |
| 1 A                               | 110 s               | 205 s             | 311 s                 | 425 s                 | 503 s                 | 625 s                 | 695 s                 | 816 s                 |

# Uninterruptible power supplies

## SITOP DC UPS with battery modules for bridging longer power failures



| Technical data  | Mains buffering up to the hours range                                |                                     |                                     |   |                                    |
|---|--|-------------------------------------|-------------------------------------|---|------------------------------------|
| SITOP   | UPS1600  | UPS1600                             | UPS1600                             | Battery module BAT1600  | Battery module BAT1600             |
| Energy storage  |  |                                     |                                     | LiFePO4 batteries   | Lead batteries                     |
| Output voltage/current or charge                            | 24 V/10 A  | 24 V/20 A                           | 24 V/40 A                           | 24 V/2.5 Ah Li  | 24 V/3.2 Ah                        |
|   |  |                                     |                                     | for UPS1600 10 A  | for UPS1600 10 A und 20 A          |
| Article No.   | <a href="#">6EP4134-3AB00-0AY0</a>                                   | <a href="#">6EP4136-3AB00-0AY0</a>  | <a href="#">6EP4137-3AB00-0AY0</a>  | <a href="#">6EP4132-OJA00-0AY0</a>  | <a href="#">6EP4133-OGA00-0AY0</a> |
| – with USB interface  | <a href="#">6EP4134-3AB00-1AY0</a>                                   | <a href="#">6EP4136-3AB00-1AY0</a>  | <a href="#">6EP4137-3AB00-1AY0</a>  |   |                                    |
| – with Ethernet/PROFINET interface                          | <a href="#">6EP4134-3AB00-2AY0</a>                                   | <a href="#">6EP4136-3AB00-2AY0</a>  | <a href="#">6EP4137-3AB00-2AY0</a>  |   |                                    |
| – Version suitable for air freight with 30% charge          |  |                                     |                                     | <a href="#">6EP4132-OJA00-0AY0-Z A03</a>                                    |                                    |
| – Ex version  |  | <a href="#">6EP4136-3AC00-0AY0</a>  |                                     |   | <a href="#">6EP4133-OGD00-0AY0</a> |
| – Ex version with Ethernet/PROFINET interface               |  | <a href="#">6EP4136-3AC00-2AY0</a>  |                                     |   |                                    |
| Input voltage   | 24 V DC, 22...29 V, infeed from 24-V SITOP power supply              |                                     |                                     | Recommended end-of-charge voltage (set automatically by SITOP UPS1600)      |                                    |
| Rated input current   | approx. 14 A at max. charging current (3 A)                          | approx. 25 A at max. charging (4 A) | approx. 46 A at max. charging (5 A) | Charging current max. 3 A   | Charging current max. 0.8 A        |
| Rated output voltage  | 24 V DC (upstream SITOP device or battery), charging voltage: 27.0 V |                                     |                                     | 24 V DC   | 24 V DC                            |
| Rated output current  | 10 A, charging current max. 3 A                                      | 20 A, charging current max. 4 A     | 40 A, charging current max. 5 A     | 10 A  | 20 A                               |
| – Overload behavior (power boost for 30 ms)                 | 30 A   | 60 A                                | 120 A                               |   |                                    |
| – Overload behavior (extra power for 5 s/min)               | 15 A   | 30 A                                | 60 A                                |   |                                    |
| Relative temporary capacity loss at 20°C per month, typical |  |                                     |                                     | 2.5 Ah Li: 1 %  | 3.2 Ah Pb: 3 %                     |
| Efficiency at rated values, approx.                         | > 97.7 %   | > 98.2 %                            | > 98.8 %                            | Not applicable  | Not applicable                     |
| Efficiency at rated values, approx.                         | Yes, restart in normal mode  |                                     |                                     | Installed battery fuse: 15 A/32 V   | Installed battery fuse: 25 A/32 V  |
| Parallel switching  | No   | No                                  | No                                  | Yes, up to 6 units  | Yes, up to 6 units                 |
| EMF suppression (EN 55022)                                  | Class B  | Class B                             | Class B                             | –   | –                                  |
| Degree of protection (EN 60529)                             | IP20   | IP20                                | IP20                                | IP20  | IP20                               |
| Ambient temperature (derating from +60 °C)                  | –25...+70 °C   | –25...+70 °C                        | –25...+70 °C                        | –10...+50 °C  | –15...+50 °C                       |
| Installation  | DIN rail   | DIN rail                            | DIN rail                            | DIN rail or wall mounting <sup>1)</sup>                                     |                                    |
| Dimensions (W x H x D) in mm                                | 50 x 125 x 125   | 50 x 125 x 125                      | 70 x 125 x 150                      | 89 x 156 x 129  | 89 x 156 x 169                     |
| Weight approx.  | 0.38 kg/0.4 kg/0.44 kg   | 0.39 kg/0.41 kg/0.45 kg             | 0.65 kg/0.65 kg/0.7 kg              | 2.0 kg  | 3.8 kg                             |
| Certification   | CE, CB, cULus, RCM, DNV, ABS. Ex version: ATEX, IECEx, ULEx, CCC     |                                     |                                     | CE, CB, cULus, RCM, ABS, pending: DNV<br>Ex version: ATEX, IECEx, ULEx, CCC |                                    |

<sup>1)</sup> With [6EP4990-0MK00-0XU0](#) wall-mounting kit (2 pcs)  
Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified).

# SITOP BAT1600 – Buffering times and service life

| Mains buffering up to the hours range                                      |   |   |
|--|---|---|
| Battery module BAT1600   | Battery module BAT1600  | Battery module BAT1600  |
| LiFePO4 batteries  | Lead batteries  | Lead batteries  |
| 24 V/7.5 Ah Li   | 24 V/12 Ah Pb   | 24 V/38 Ah Pb   |
| for UPS1600 10 A, 20 A, and 40 A<br><u>6EP4134-0JA00-0AY0</u>              | for UPS1600 10 A, 20 A, and 40 A<br><u>6EP4135-0GE00-0AY0</u> | for UPS1600 10 A, 20 A, and 40 A<br><u>6EP4137-0GE00-0AY0</u> |
|  |   |   |
| <u>6EP4134-0JA00-0AY0-Z A03</u>  |   |   |
|  | <u>6EP4135-0GL00-0AY0</u>                                     |   |
| Recommended end-of-charge voltage (set automatically by SITOP UPS1600)     |   |   |
| Charging current max. 3 A  | Charging current max. 3 A                                     | Charging current max. 3 A                                     |
| 24 V DC  | 24 V DC   | 24 V DC   |
| 40 A   | 40 A  | 40 A  |
|  |   |   |
| 1 %  | 3 %   | 3 %   |
| Not applicable   | Not applicable  | Not applicable  |
| Installed battery fuse:<br>50 A/32 V                                       | Installed battery fuse:<br>50 A/32 V                          | Installed battery fuse:<br>50 A/32 V                          |
| Yes, up to 6 units   | Yes, up to 6 units  | Yes, up to 6 units  |
| –  | –   | –   |
| IP20   | IP20  | IP20  |
| –10...+50 °C   | –10...+50 °C  | –15...+50 °C  |
| DIN rail<br>or wall mounting <sup>1)</sup>                                 | Wall mounting   | Floor mounting  |
| 238 x 156 x 129  | 238 x 156 x 125   | 394 x 212 x 165   |
| 4.0 kg   | 9.8 kg  | 28.4 kg   |
| CE, CB, cULus, RCM, ABS, pending: DNV, Ex version: ATEX, IECEx, ULEEx, CCC |   |   |

<sup>1)</sup> With 6EP4990-0MK00-0XU0 wall-mounting kit



| SITOP BAT1600 | 2.5 Ah Li     | 3.2 Ah Pb  | 7.5 Ah Li  | 12 Ah Pb   | 38 Ah Pb    |
|---------------|---------------|------------|------------|------------|-------------|
| Load current  | Buffer times* |            |            |            |             |
| 1 A           | 2 h 9 min     | 1 h 40 min | 6 h 28 min | 8 h 30 min | 30 h        |
| 2 A           | 1 h 13 min    | 50 min     | 3 h 39 min | 4 h 20 min | 16 h 40 min |
| 3 A           | 51 min        | 30 min     | 2 h 33 min | 2 h 40 min | 11 h 20 min |
| 4 A           | 39 min        | 20 min     | 1 h 57 min | 1 h 50 min | 8 h         |
| 6 A           | 27 min        | 10 min     | 1 h 20 min | 1 h 20 min | 5 h         |
| 8 A           | 20 min        | 6 min      | 61 min     | 50 min     | 3 h 40 min  |
| 10 A          | 16 min        | 4 min      | 49 min     | 40 min     | 2 h 50 min  |
| 12 A          | 14 min        | 2 min      | 41 min     | 30 min     | 2 h         |
| 14 A          | 12 min        | 1 min      | 35 min     | 25 min     | 1 h 50 min  |
| 16 A          | –             | < 1 min    | 31 min     | 20 min     | 1 h 40 min  |
| 20 A          | –             | –          | 25 min     | 15 min     | 1 h 15 min  |
| 30 A          | –             | –          | 17 min     | 6 min      | 45 min      |
| 40 A          | –             | –          | 13 min     | 3 min      | 30 min      |

\* Buffer time determination is based on the discharging time of new and completely charged battery modules with a minimum battery temperature of +25 °C until DC UPS (19 V) turns off.

The TIA Selection Tool can be used to determine buffer times for additional temperatures and buffer voltages:  
[siemens.com/tst-powersupply](https://www.siemens.com/tst-powersupply)

## Service life of energy storage device

| – typical         | Capacity falls to 80% of original capacity (according to EUROBAT) |           |           |           |            |
|-------------------|---|-----------|-----------|-----------|------------|
| Comment           |   |           |           |           |            |
| – at 20°C typical | 11 years  | 4 years   | 11 years  | 4 years   | 10 years   |
| – at 30°C typical | 11 years  | 2 years   | 11 years  | 2 years   | 5 years    |
| – at 40°C typical | 8 years   | 1 year    | 8 years   | 1 year    | 2.5 years  |
| – at 50°C typical | 6 years   | 0.5 years | 2.5 years | 0.5 years | 1.25 years |
| – at 60°C typical | 2 years   | 0 years   | 2 years   | 0 years   | 0 years    |

## Buffer times

The correct DC-UPS configuration that takes into account the buffer time, load current, ambient temperature, and minimum buffer voltage can be selected in the TIA Selection Tool (also see p. 14): [siemens.com/tst-powersupply](https://www.siemens.com/tst-powersupply)

Find out more:

[siemens.com/sitop](https://www.siemens.com/sitop)

## Additional information on SITOP:

- › TIA Selection Tool:  
[siemens.com/tst-powersupply](https://www.siemens.com/tst-powersupply)
- › Operating instructions as download:  
[www.siemens.com/sitop-manuals](https://www.siemens.com/sitop-manuals)
- › Request CAx data via the CAx download manager:  
[siemens.com/cax](https://www.siemens.com/cax)

More about SITOP on YouTube



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