

Edition
05/2026



THE HEART OF AUTOMATION

SITOP Power Supply

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

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

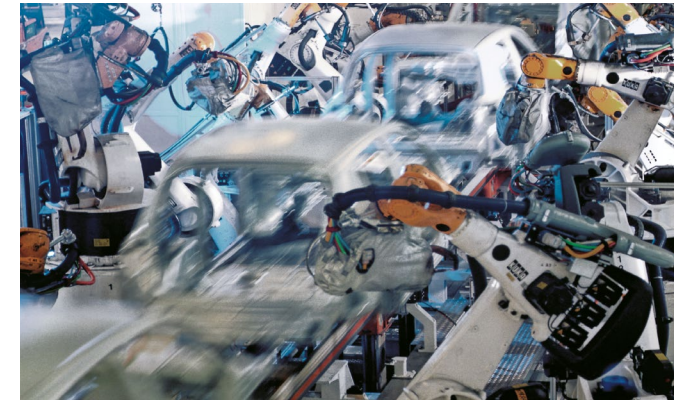
SIEMENS



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 12 V, 24 V or 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 39-43](#).

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. 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 family 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 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 Basic family 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 TIA Portal. It's integrated directly into networked automation applications via its Ethernet/PROFINET 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.

[Data on pages 32–35](#)



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.

[Data on page 36](#)



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.

[Data on pages 37–38](#)

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 12 V, 24 V, 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.

[Data on pages 39–41](#)

Standard power supplies



SITOP smart

The powerful standard power supply

SITOP smart is the optimal power supply for many 12 V and 24 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.

[Data on pages 42–43](#)

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.

[Data on page 44](#)



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.

[Data on pages 45–46](#)

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.

[Data on page 48](#)

SIMATIC Design

The optimal supply for SIMATIC S7 and more

The original SIMATIC power supplies integrate seamlessly into the PLC network in terms of functionality and design. Their startup and power reserves meet the requirements of the respective controllers, along with similar mounting.

[Data on page 47](#)

Special designs

Equipped for special functions and conditions

[Data on pages 49–51](#)

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.

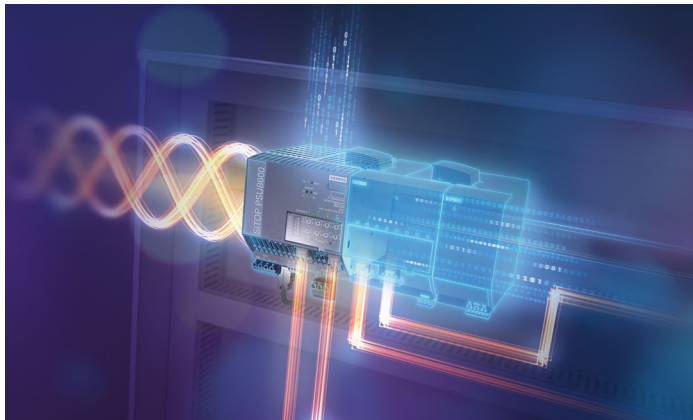
A virtual demo model shows how SITOP PSU8600 protects your 24 V applications and supports your energy management.

Product overview



Demo model

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...

the outputs of the power supply system can be switched on and off via the controller, saving the need for contactors?

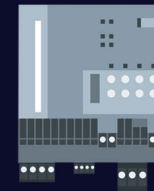
SITOP PSU8600 System – modular and integrated



SITOP BUF8600
buffer modules



SITOP CNX8600
expansion modules



SITOP PSU8600
base units



SITOP UPS8600
USV modules



SITOP BAT8600
battery modules

Integration



Controller

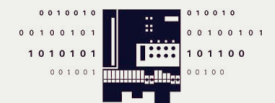


Monitoring

PROFINET,
OPC-UA



Engineering with TIA Portal



Open communication

The modular system toolbox



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

[Product overview](#)

[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 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 devices 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.

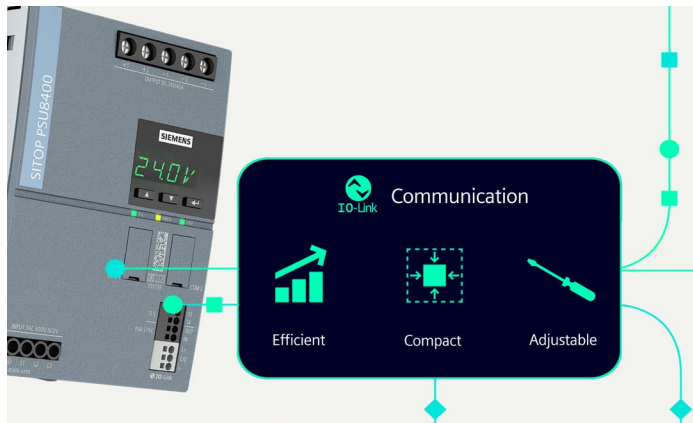
SITOP PSU8400 – the power supply with IO-Link that puts its values on display

Advanced power supplies

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. The high quality is also reflected in the design.

SITOP PSU8400 and its perfectly matched SEL1600 selectivity system were awarded the iF Design Award 2026.

Product overview



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



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

... 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.

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.

Use the SITOP PSU6200/SEL1200 virtual
demo model to discover how you can protect
your 24 V circuits.



Demo model

Product overview

Standard power supplies



Focused diagnostic. 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?

Diagnostic monitor/Diagnostic interface

SITOP PSU6200 power supply units starting from 12 V/12 A,
24 V/10 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.

Output
voltage o.k.



Utilization

< 30% > 30% > 60% > 90%

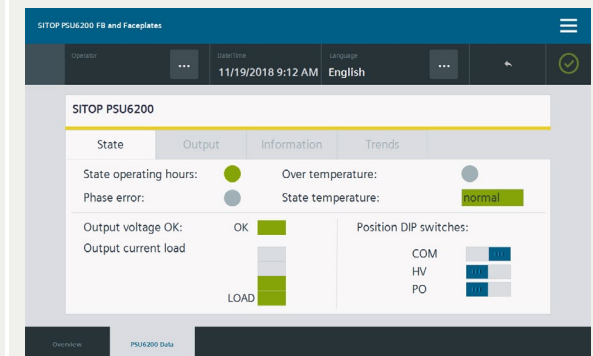
Output
voltage o.k.



Service life

< 10%

The SDI (SITOP Diagnostic 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



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



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.

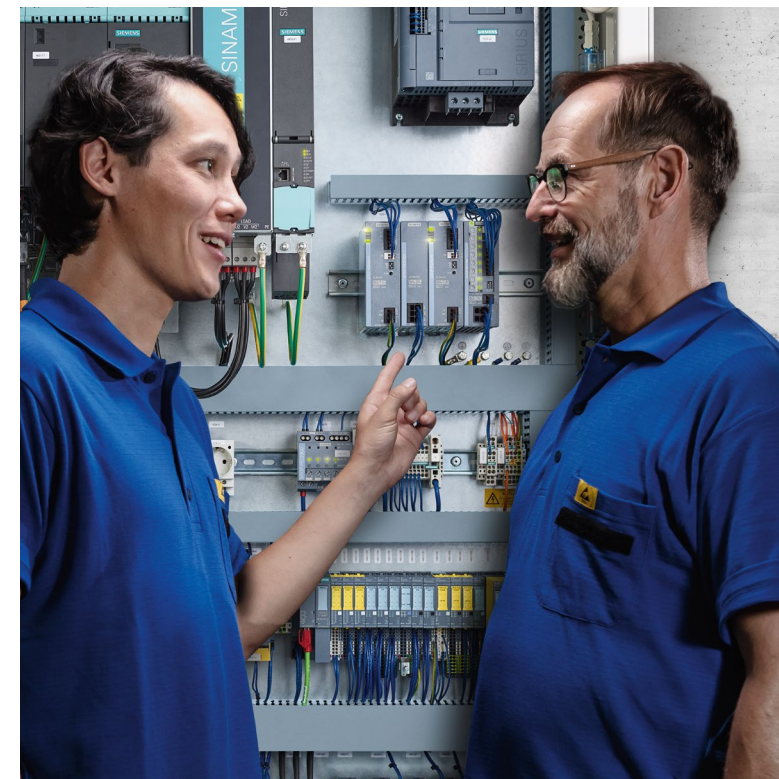


Dependable operation. Top reliability.

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 18–19.](#)



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 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 15–17.](#)

A high degree of protection – power supplies and power supply system

The rugged SITOP power supply units with IP65 degree of protection are fully safeguarded against dust and water jets from all directions. The power supply units enable decentralized 24 V or 48 V

supply directly at the machine or system. This means no control cabinet and complex control cabinet concepts are required – saving both time and money.

Degree of protection IP65



Reliable power supply directly at the machine

The new SITOP PSP6200 (Power Supply Protected) power supply is based on the SITOP PSU6200 product line and offers the electrical capabilities of the high-performance 3-phase 960-W units. [See page 10.](#)

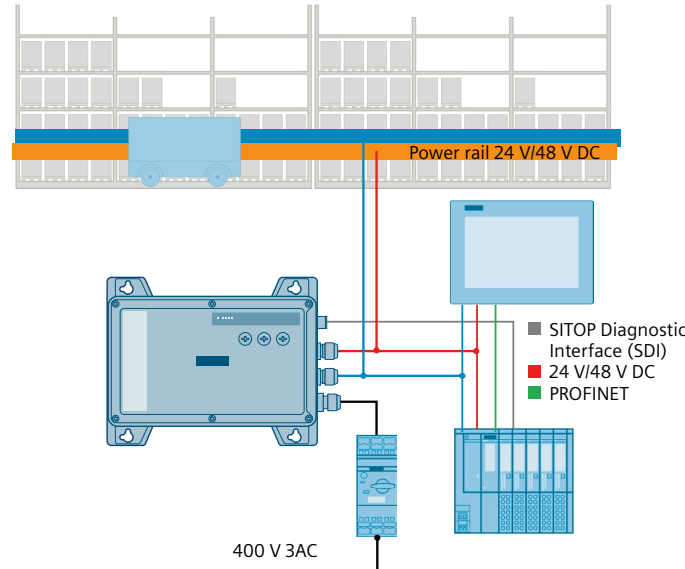
Additional special features:

- Robust die-cast aluminum housing with IP65 protection rating – protected against dust and splashing water
- Temperature range from $-30\text{ }^{\circ}\text{C}$ to $+60\text{ }^{\circ}\text{C}$
- Open cable ends (1 m)
- Time and cost savings by eliminating the need for a control cabinet
- Supply of the control cabinet with extra-low safety voltage to eliminate high voltages (see application example on the right)

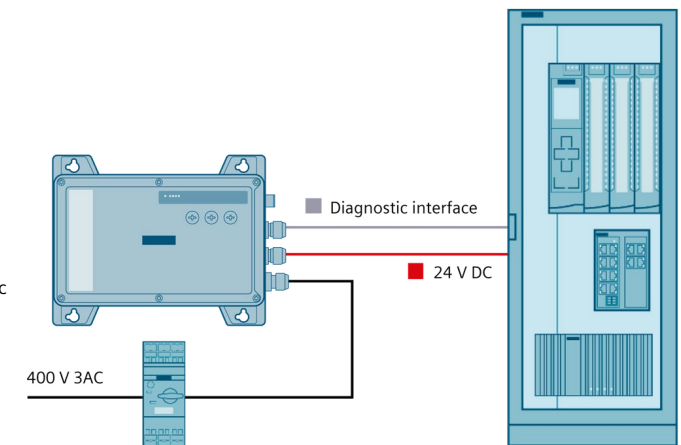


Did you know that...

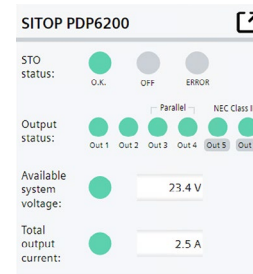
the SITOP PSP6200 power supply uses multicolored LEDs to indicate the load and the end of its service life?



SITOP PSP6200: 24 V or 48 V supply for busbars in shuttle systems



SITOP PSP6200: 24 V supply for safe access to the control cabinet



Did you know that...

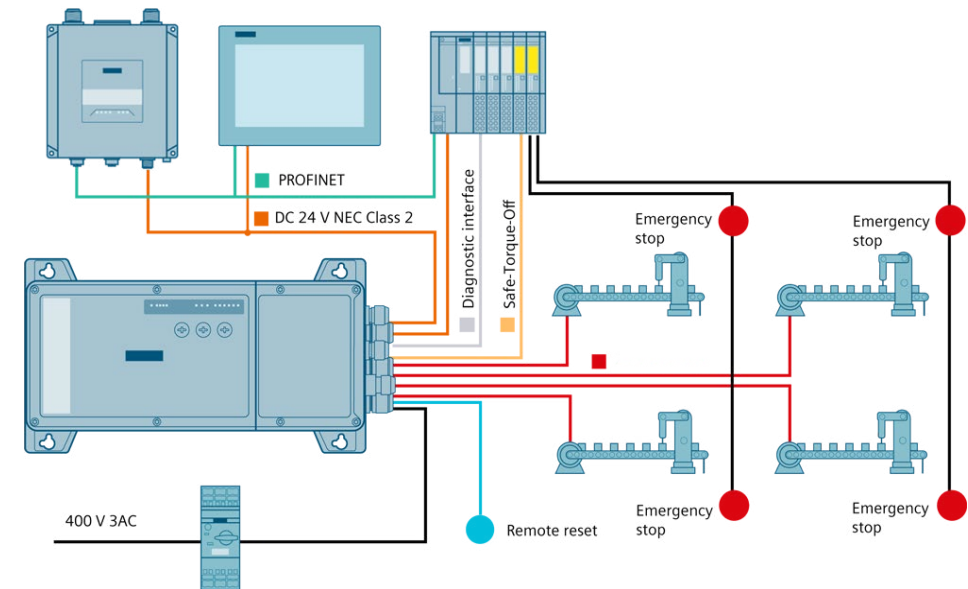
WinCC faceplates make it easier to visualize the SITOP PDP6200 power supply system?



Rugged power supply for DC motor applications

The new SITOP PDP6200 (Power Supply Device Protected) power supply system is fundamentally based on the SITOP PSP6200, but features six additional selectively protected outputs – four rated at 10 A and two at 3 A in accordance with NEC Class 2. The “Safe Torque Off” (STO) function enables optimal use with 24 V drives, e.g., in intralogistics.

- Four 10 A load outputs, two of each can be switched in parallel for 20 A
- Safe shutdown of the load outputs during an emergency stop via STO, performance level d
- Continued power supply to two control outputs in accordance with NEC Class 2 during an emergency stop
- Remote reset for reactivating temporarily deactivated outputs



SITOP PDP6200: Decentralized power supply for conveyor belt systems

- Multicolor LEDs for status information on individual outputs and the power supply (Safe Torque Off OK/ active, load indicator, service life)
- The SITOP Diagnostic Interface (SDI) transmits detailed status information about the power supply and individual outputs via a single digital PLC input

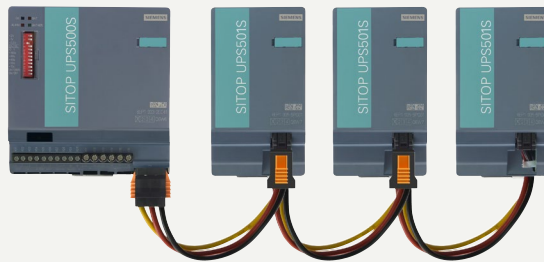
SITOP ensures reliable 24 V supply – even when the power fails

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 modules
with capacitors for
frequent short-term
buffering



Data sheet

SITOP DC UPS with integrated capacitors

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

Totally maintenance-free

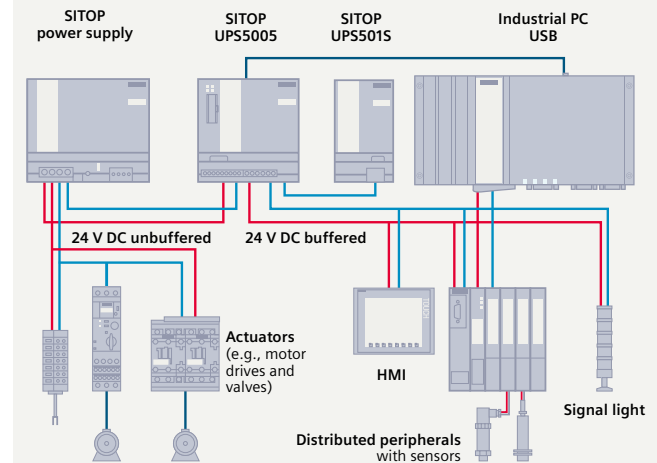
The capacitors have an extremely long life even at high ambient temperatures. No maintenance or replacement of the energy buffer is required, which means that the DC UPS pays for itself within a short time. And because the capacitors do not emit any gas, no ventilation of the control cabinet is required.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

Modular expansion possible

The buffering time of SITOP 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
- Large number of charge and discharge cycles possible
- 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 25 for more details](#)

SITOP DC UPS configuration with capacitors



**24 V buffering for saving process data
and for correct PC shutdown**

Test how an uninterruptible power supply protects a PC-based automation solution from power outages online with the SITOP UPS1600 virtual demo model.



Demo model

DC UPS, capacitor and battery modules for frequent or long buffering



Data sheet

SITOP DC UPS with battery and capacitor modules

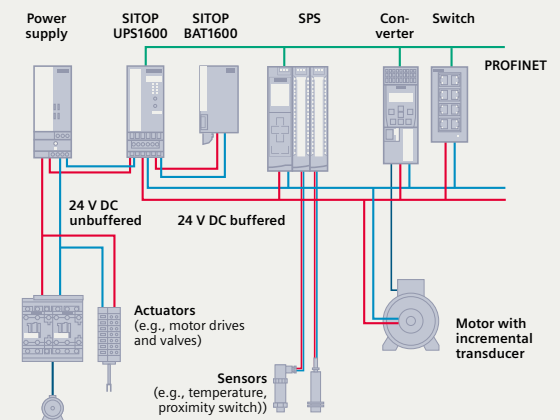
When combined with BAT1600 battery modules, the SITOP UPS1600 DC UPS modules ensure continuous operation even over several hours, depending on battery capacity and power requirements. When combined with the new SITOP CAS1600 capacitor modules, the SITOP UPS1600 enables frequent bridging of power outages without compromising service life.

- SITOP UPS1600 DC UPS modules 24 V/10 A, 20 A, 40 A without interface or with USB or Industrial Ethernet/PROFINET
- SITOP BAT1600 battery modules with lead-acid or lithium iron phosphate (LiFePO₄) batteries for long buffering times

- SITOP CAS1600 capacitor modules with double-layer capacitors for frequent buffering, short charging times, and a long service life even at high temperatures
- Intelligent battery management with automatic detection of battery and capacitor modules and temperature-dependent charging characteristics; monitoring of operational readiness, energy storage supply line, state of charge and remaining service life via State of Health (SoH)
- All diagnostic data and alarm messages available via USB and Ethernet/PROFINET
- Simple engineering and comprehensive diagnostics in TIA Portal
- Configuration and monitoring via SITOP Manager; see page 25

- The SITOP Manager Edge app also allows you to safely shut down and restart Industrial Edge devices and apps; see page 26
- Certified, integrated OPC UA server for flexible, vendor-independent communication with other systems (models with Ethernet/PROFINET)
- Remote monitoring via integrated web server
- DC UPS and battery modules also available in versions with explosion protection

SITOP DC UPS configuration with battery modules

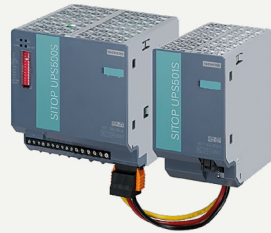


24 V buffering for maintaining communications, signaling, sensor-measured values, and position values



Did you know that...

capacitor-based energy storage systems can withstand 500,000 charge/discharge cycles?



	Buffer module	UPS500	UPS1600		
Energy storage device	BUF1200	UPS500S/510S	BAT1600 Pb	BAT1600 LiFePO4	CAS1600 SuCap
24 V buffer time	Seconds	Minutes	Hours		Minutes
Storage medium	Electrolytic capacitors	Double-layer capacitors	Lead batteries	Lithium batteries	Double-layer capacitors
Service life (also temperature-dependent)	++	++	•	+	++
Application area (temperature, charge/discharge cycles, ventilation)	+	++	•	+	++
UPS module/electronics					
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			•		

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.

Test protection for 24 V circuits online using the SITOP PSU6200/SEL1200 virtual demo model.



Demo model

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.

Application note



Data sheet

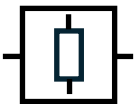
Selective disconnection of faulty 24 V feeders

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.

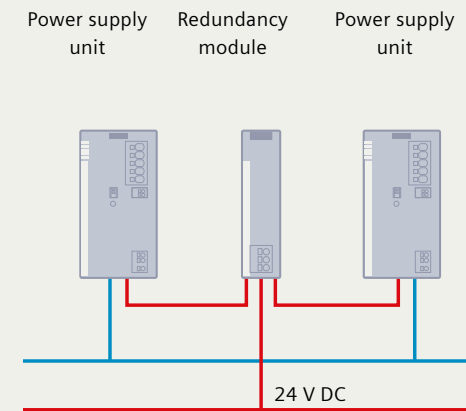


[Data sheet](#)

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



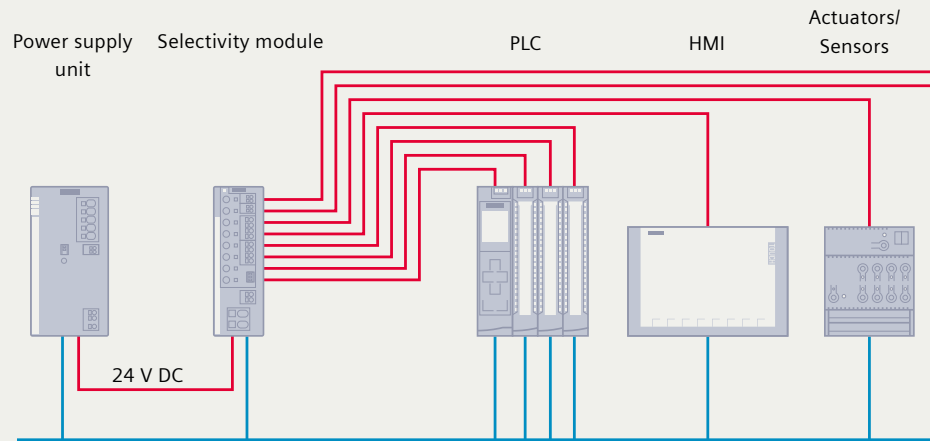
Your benefits with the redundancy module:

- 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

Note: The new SITOP PSR6200 24 V DC/20 A power supply features integrated MOSFETs for decoupling and therefore does not require a redundancy module for a redundant configuration.

[SITOP PSR6200 specifications](#)

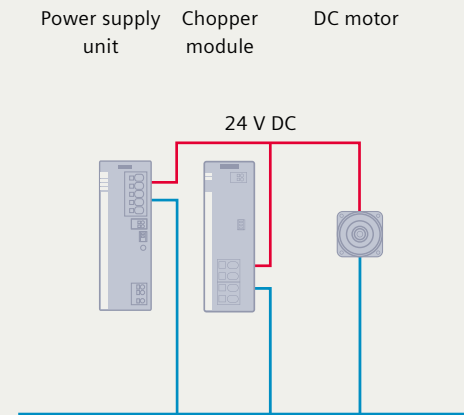
Configuration with selectivity module



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; additional 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 ($1 \text{ V} \triangleq 1 \text{ A}$)

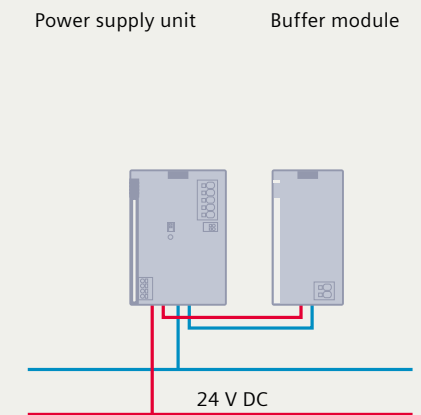
Configuration with chopper module



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 kWs 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

Configuration with buffer module



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		SITOP PSU6200 48 V/5 A and 10 A	SITOP PSU3600 3...52 V/10 A	SITOP PSU100E 48 V/5 A	SITOP RED1200 10...58 V/20 A, 40 A and 80 A	SITOP SEL1200 48 V/4 x 10 A
3-phase	SITOP PSU8200 48 V/10 A and 20 A	SITOP PSU6200 48 V/5 A, 10 A and 20 A	SITOP PSP6200 48 V/20 A		Chopper module SITOP CHO1400 24 V/48 V, 1 kW	Power boost module SITOP PBM1200 24 V/48 V, 20 A/40 A

Power supplies for different requirements

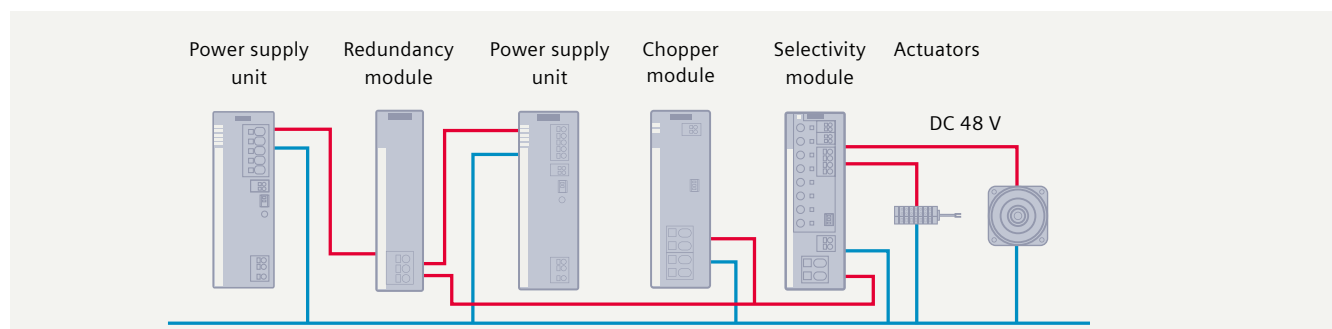
To reliably supply industrial 48 V applications, SITOP also offers single and 3-phase 48 V power supply units in various product lines.

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.

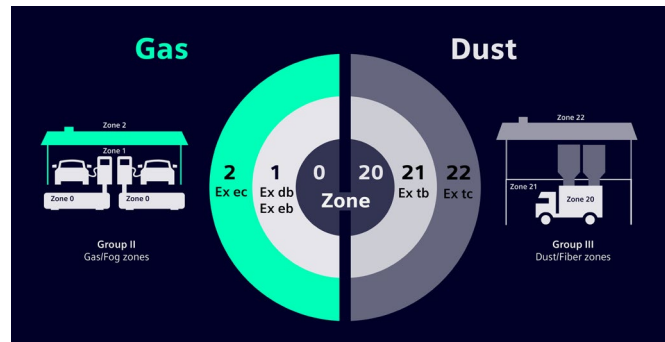
For reasons of industrial safety, electronic devices in these environments must be appropriately designed and certified. That also applies to power supply units.

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 S7-1200 G2 PM 1207 Ex 24 V DC/5 A](#)

[SIMATIC S7-1500 PM1507 24 V DC/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](#)

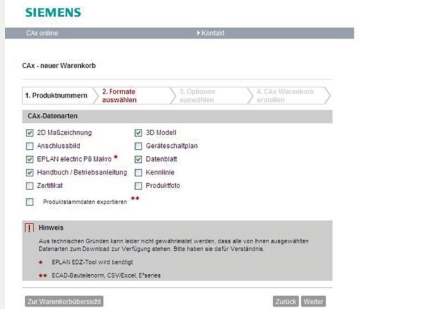
Uninterruptible power supply with capacitors

[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.



CAx - neuer Warenkorb

1. Produktnummer 2. Formate auswählen 3. Optionen auswählen 4. CAx Warenkorb erstellen

CAx-Daten

- ☒ 2D-Modellzeichnung
- ☒ 3D-Modell
- ☐ Anschlussbild
- ☐ Drahtschaltplan
- ☒ EPLAN electric PS Macro
- ☐ Datenblatt
- ☒ Handbuch / Betriebsanleitung
- ☐ Kennlinie
- ☐ Zeichnung
- ☐ Produktfoto
- ☐ Produktdaten exportieren

Hinweis

Aus technischen Gründen kann leider nicht gewährleistet werden, dass alle von Ihnen ausgewählten Daten zum Download zur Verfügung stehen. Bitte haben Sie dafür Verständnis.

- EPLAN-EC2-Tool wird benötigt
- CAD-Bauform, CSV-Datei, E-Series

Zur Warenkorbübersicht Zurück Weiter

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

[mySupport Links und Tools](#)



1-5 von 5 Motiven Motive pro Seite 12 | 20 | 40 | 100 K | < | > | >|

SITOP PSU8200, 24 V, 10 A

SITOP PSU8200, 24 V, 10 A

SITOP PSU8200 1-phasig, 24 V, 10 A

SITOP PSU8200 1-phasig, 24 V, 10 A

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

[Image database](#)

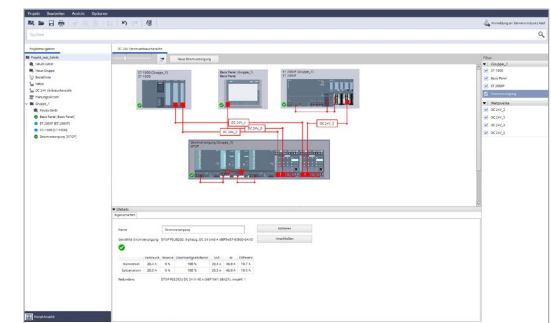
Efficiency starts with selection

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 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.

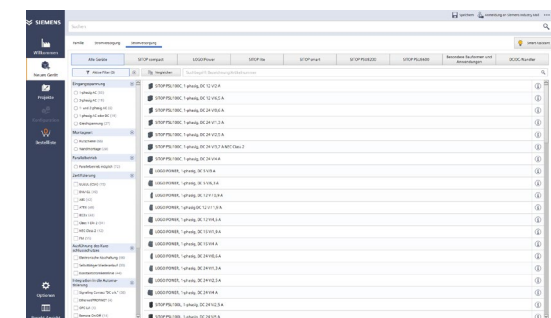
Everything you need for planning

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



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 UPS1600](#)

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 S7-400, 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.

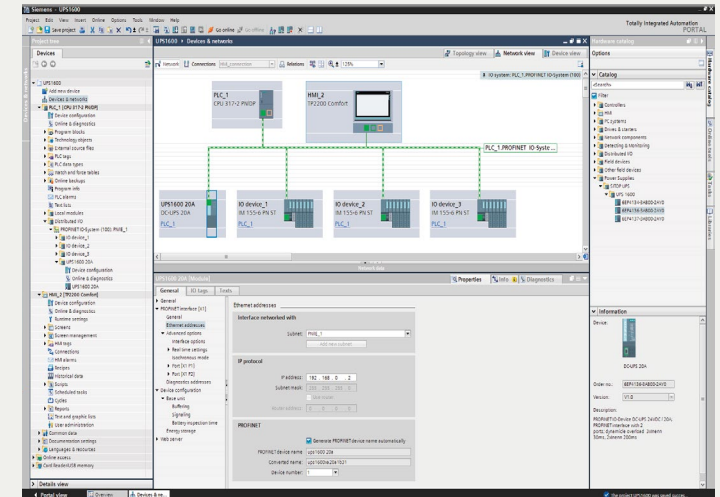
Your advantages through system integration of SITOP UPS1600 and SITOP PSU8600

- 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 S7-400/1200/1500
- Fast integration into operation and monitoring with
faceplates for SIMATIC panels and SIMATIC WinCC

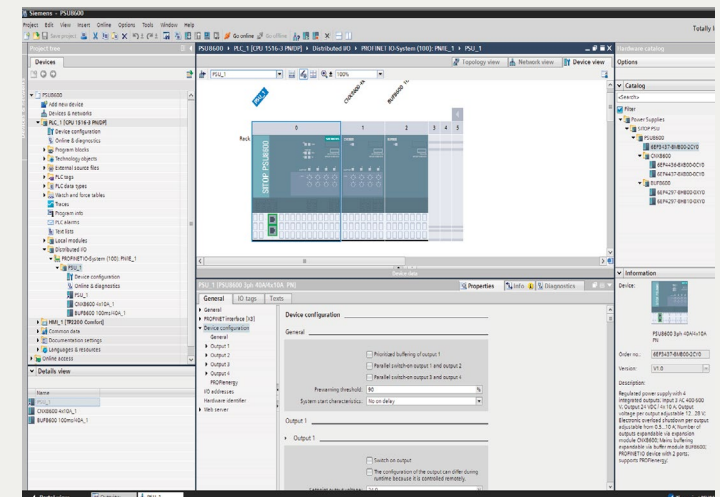


[siemens.com/
tia-selection-tool](https://www.siemens.com/tia-selection-tool)

[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.

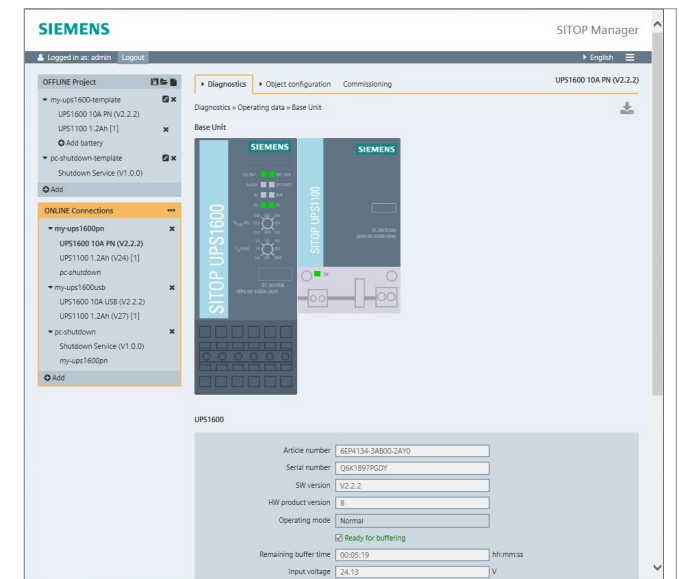
Uncompromising when it comes to security

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)

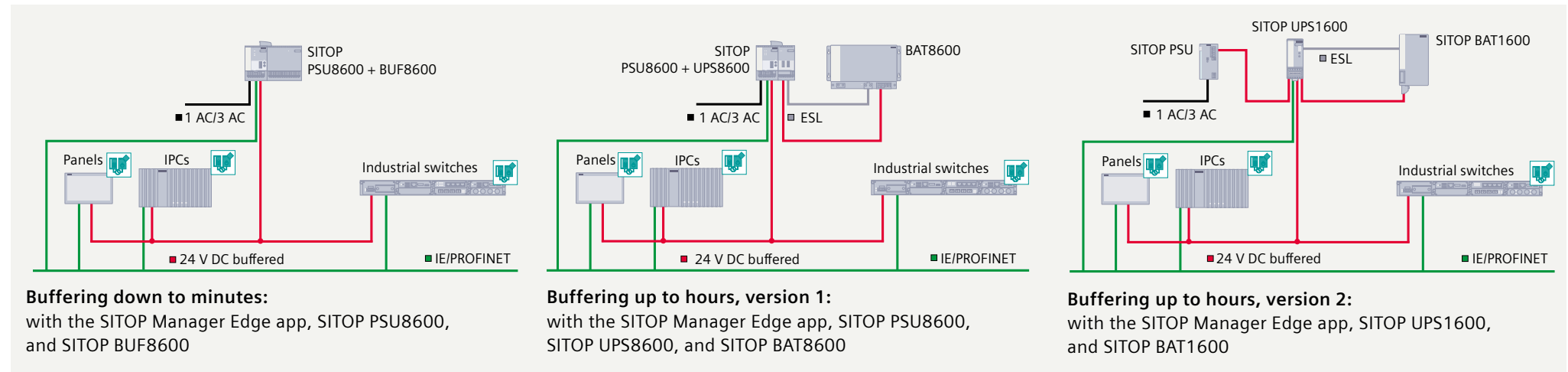
More about SITOP Manager in SIOS



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:**

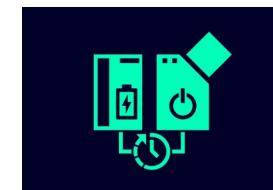
SITOP PSU8600 power supply system with SITOP BUF8600 buffer modules

- **Buffering up to hours, version 1:**

SITOP UPS1600 uninterruptible power supply with SITOP BAT1600 battery modules

- **Buffering up to hours, version 2:**

SITOP PSU8600 power supply system with SITOP UPS8600 module and SITOP BAT8600 battery modules



SITOP Manager in the
Industrial Edge marketplace

Virtual demo models –

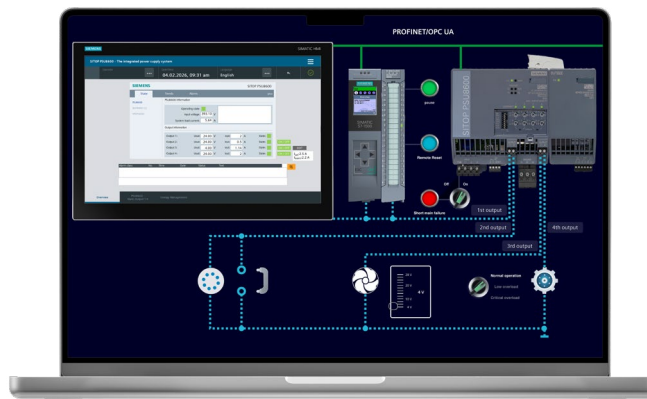
Test SITOP PSU6200/SEL1200, SITOP PSU8600, and SITOP UPS1600 online

Experience and test real-world applications with SITOP power supplies in a virtual environment. Tutorial videos show you how to protect 24 V applications against overload, short circuits, and power outages, or how to safeguard PC-based automation solutions against power outages. Plus, explore all use cases by yourself with interactive simulations.

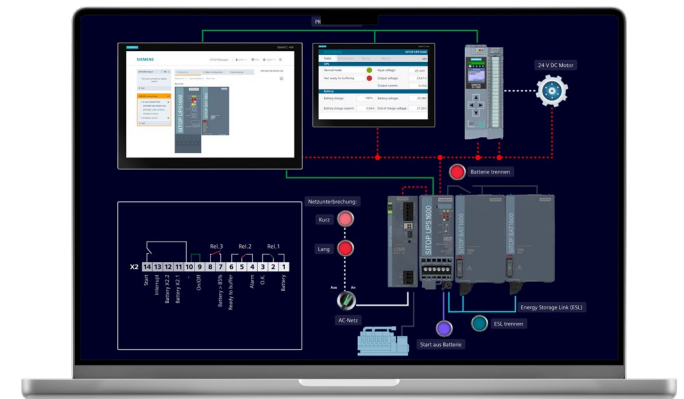
Virtual demo model with SITOP PSU6200
and SITOP SEL1200



Virtual demo model with SITOP PSU8600



Virtual demo model with SITOP UPS1600



Critical load conditions and common issues in a 24 V control circuit. Discover how to use the SITOP PSU6200 standard power supply and the SITOP SEL1200 selectivity module to detect faults in the circuit, selectively protect branch circuits, and understand how this differs from protection using circuit breakers.

Short circuits, overload, energy management, power outages, and more. See how the SITOP PSU8600 power supply system with PROFINET communication protects a 24 V application running on a SIMATIC Panel PC against various risks. In addition, the demo model shows you how the SITOP PSU8600 can support your plant's energy management via PROFINET and PROFlenergy.

Uninterruptible power supply for a PC-based automation solution. Explore how to protect an application with a SIMATIC Panel PC from power outages using the SITOP UPS1600 DC UPS. Click through various use cases, such as system health monitoring, short- or long-term power outages, error messages, and more.



Demo model



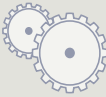
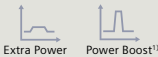
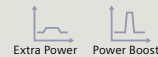
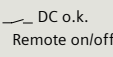
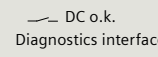
Demo model



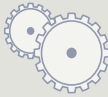
Demo model

SITOP – the right power supply for every application

Product overview

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
Input/output 	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
Properties 	Overload behavior	P _{max}					
	Energy efficiency		+++ 	+++	+++	+++	++
	Automation integration						
Safety, environment 	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 144 W: –30...+70 °C	–25...+70 °C
24 V power supply units expandable with... 	Redundancy module		•	•	•	•	•
	Selectivity module	 I >	integrated	•	•	•	•
	Buffer module	 s	integrated	•	•	•	•
	DC UPS with Ultracaps	 min	integrated	•	•	•	•
	DC UPS with batteries	 h	integrated	•	•	•	•

¹⁾ 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	LOGO!Power – the flat power supply for distribution boards	SITOP in SIMATIC design – the ideal power supply for SIMATIC S7 and more	Stable power supply despite fluctuating DC voltage	Equipped for special functions and conditions
Input/output 	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
Properties 	Overload behavior	P _{max}		 Extra Power on startup	 S7-1500/ET 200SP: Extra Power	 PSU400M: Extra Power	 PSP6200: extra Power
	Energy efficiency		++	++	+	+++	++
	Automation integration		— DC o.k.		PM1207: diagnostic interface	> 240 W: — DC o.k.	in some cases — DC o.k. diagnostic interface
Safety, environment 	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	–30...+70 °C
24 V power supply units expandable with... 	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

Product overview

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 120 V, 230 V AC	0.6 A							6EP3330-6SB00-0AY0	6EP1331-5BA00		
	1.3 A				6EP3331-7SB00-0AX0			6EP3331-6SB00-0AY0	6EP1331-5BA10		
	2 A									6ES7307-1BA01-0AA0	
	2.5 A				6EP3332-7SB00-0AX0	6EP1332-2BA20		6EP3332-6SB00-0AY0	6EP1332-5BA00	6EP1332-1SH71	6EP3332-0TA00-0AY0
	3 A						6EP3332-3SB00-0AX0			6EP1332-4BA00(-8AA0)	
	3.7 A				6EP3333-7LB00-0AX0				6EP1332-5BA20		
	4 A							6EP3333-6SB00-0AY0	6EP1332-5BA10		
	5 A			6EP1333-3BA10	6EP3333-7SB00-0AX0	6EP1333-2BA20	6EP3333-3SB00-0AX0			6EP3333-4SB00-3AX0	
				6EP3333-8SB00-0AY0	6EP3333-7SC00-0AX0					6EP3333-4SC00-3AX0	
										6EP7133-6AB00-0BNO	
	6.25 A										
	8 A									6EP1333-4BA00(-8AA0)	
	10 A			6EP1334-3BA10	6EP3334-7SB00-3AX0	6EP1334-2BA20	6EP3334-3SB00-0AX0			6ES7307-1KA02-0AA0	
				6EP3334-8SB00-0AY0	6EP3334-7SC00-3AX0	6EP1334-2AA01-0AB0				6EP7133-6AE00-0BNO	
	14.6 A										
	20 A			6EP1336-3BA10	6EP3336-7SB00-3AX0	6EP1336-2BA10	6EP3336-3SB00-0AX0				
	20 A/4 x 5 A	6EP3336-8MB00-2CY0									
	40 A			6EP3337-8SB00-0AY0	6EP3337-7SB(C)00-3AX0						
	3-phase 400–500 V AC	5 A			6EP1333-3BA10 ¹⁾	6EP3433-7SB(C)00-0AX0	6EP1433-2BA20				
8 A										6ES7148-4PC00-0HA0	
10 A				6EP1334-3BA10 ¹⁾	6EP3434-7SB(C)00-3AX0	6EP1434-2BA20	6EP3434-3SB00-0AX0				
17 A											
20 A			6EP3436-8SB00-4AY0	6EP3436-8SB00-0AY0	6EP3436-7SB(C)00-3AX0	6EP1436-2BA10	6EP3436-3SB00-0AX0				
		6EP3436-8SB00-2AY0									
20 A/ 4 x 5 A		6EP3436-8MB00-2CY0									
30 A											
40 A		6EP3437-8SB00-2AY0	6EP3437-8SB00-4AY0	6EP3437-8SB00-0AY0	6EP3437-7SB(C)00-3AX0	6EP1437-2BA20					
40 A/ 4 x 10 A		6EP3437-8MB00-2CY0									
40 A/ 4 x 10 A, 2 x 3 A											
12 V DC	4 A									6EP3133-0TA10-0AY0	
24–110 V DC	2 A								6ES7305-1BA80-0AA0		
24 V DC	5 A										6EP3133-0TA00-0AY0
	10 A										6EP3134-0TA00-0AY0
48 V DC	3.5 A										6EP3233-0TA10-0AY0
	5 A										6EP3233-0TA00-0AY0
	10 A										6EP3234-0TA00-0AY0
24–240 V DC (PSU3400)	0.6 A							6EP3330-6SB00-0AY0	6EP1331-5BA00		
	1.3 A				6EP3331-7SB00-0AX0			6EP3331-6SB00-0AY0	6EP1331-5BA10		
110–300 V DC (LOGO!Power)	2.5 A				6EP3332-7SB00-0AX0			6EP3332-6SB00-0AY0	6EP1332-5BA00		6EP3332-0TA00-0AY0
	3.7 A				6EP3333-7LB00-0AX0				6EP1332-5BA20		
110–240 V DC / 120–240 V DC (PSU6200, PM1207)	4 A							6EP3333-6SB00-0AY0	6EP1332-5BA10		
	5 A				6EP3333-7SB00-0AX0					6EP3333-4SB(C)00-3AX0	
	10 A				6EP3334-7SB00-3AX0						
	20 A				6EP3336-7SB00-3AX0						
110–220 V DC	20 A/4 x 5 A	6EP3336-8MB00-2CY0									
88–350 V DC	20 A			6EP1336-3BA10							
600 V DC	20 A										6EP1536-3AA00

¹⁾ 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	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			
DC 24 V output voltage			Output voltage 5. 12. 15. 48. etc... V DC										
1-phase 120 V, 230 V AC	2 A	6EP1331-1LD01	1-phase 120 V, 230 V AC	4–28 V/ 4 x 5 A	6EP3336-8SB00-2CY0								
		6EP3323-0SA00-0BY0		5 V/3 A					6EP3310-6SB00-0AY0				
	5A	6EP1333-7CA10		5 V/6.3 A					6EP3311-6SB00-0AY0				
		6EP3343-0SA00-0AY0		12 V/0.9 A					6EP3320-6SB00-0AY0				
	6.25 A	6EP1333-1LD01		12 V/1.9 A					6EP3321-6SB00-0AY0				
	8 A	6EP1334-7CA10		12 V/2.0 A		6EP3321-7SB00-0AX0			6EP1321-5BA00				
	10 A	6EP3343-0SA00-0AY0		12 V/3.0 A								6EP1321-1LD01	
14.6 A	6EP1334-1LD01	12 V/4.5 A						6EP3322-6SB00-0AY0					
20 A	6EP3336-7SB10-3AX0	12 V/6.5 A							6EP1322-5BA10				
3-phase 400–500 V AC	5 A	6EP1433-0AA00		12 V/7 A			6EP3323-7SB00-0AX0	6EP1322-2BA00					
	8 A	6ES7148-4PC00-0HA0		12 V/8.5 A									6EP1322-1LD01
	17A	6EP3436-8UB00-0AY0		12 V/12 A			6EP3324-7SB00-3AX0						
	30 A	6EP3437-8UB00-0AY0		12 V/14 A				6EP1323-2BA00					
	40 A	6EP3437-8UB00-0AY0		15 V/1.9 A					6EP3321-6SB10-0AY0				
	40 A	6EP3437-0SH00-3AV0		15 V/4 A					6EP3322-6SB10-0AY0				
	40 A/ 4 x 10 A, 2 x 3A	6EP3437-7DH00-3DY0		48 V/5 A			6EP3344-7SB00-3AX0						6EP3344-0SB00-0AY0
		48 V/10 A				6EP3346-7SB00-3AX0							
		3–52 V/ 2–10 A											6EP3343-0SA00-0AY0
		2 x 15 V/ 3.5 A											6EP3323-0SA00-0BY0
				24 V DC	12 V/8 A							6EP3123-0TA00-0AY0	
				12 V/15 A							6EP3124-0TA00-0AY0		
			3-phase 400–500 V AC	4–28 V/20 A	6EP3436-8SB00-2CY0								
				4–28 V/ 4 x 5 A	6EP3436-8MB00-2CY0								
				4–28 V/ 40 A	6EP3437-8SB00-2CY0								
				4–28 V/ 4 x 10 A	6EP3437-8MB00-2CY0								
				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					6EP3447-0SH00-3AV0	

SITOP PSU8600 advanced power supplies

The power supply system for digitalization and industry 4.0



Technical data	SITOP PSU8600 1- and 2-phase ¹⁾ , 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.	6EP3336-8MB00-2CY0	6EP3436-8SB00-2AY0	6EP3437-8SB00-2AY0	6EP3436-8MB00-2CY0	6EP3437-8MB00-2CY0
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, num-ber can be increased via CNX module	40 A, four outputs at 10 A each, num-ber 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' ouput 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				
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, BIS, SEMI F47, RCM, DNV, ABS	CE, CB, cULus, BIS, RCM, DNV, ABS, SEMI F47, IRAM			
System expandability	Up to 4 expansion modules (CNX8600) and up to 2 buffer components (BUF8600, UPS8600)				

¹⁾ 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.	<u>6EP4436-8XB00-0CY0</u>	<u>6EP4437-8XB00-0CY0</u>	<u>6EP4436-8XB00-0DY0</u>
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, 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			
Buffer time, type	100 ms/40 A, BUF8600	300 ms/40 A, BUF8600	4 s/40 A, BUF8600	10 s/40 A, BUF8600
Article No.	6EP4297-8HB00-0XY0	6EP4297-8HB10-0XY0	6EP4293-8HB00-0XY0	6EP4295-8HB00-0XY0
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, RCM, DNV, ABS		CE, CB, cULus, 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.	6EP4197-8AB00-0XY0
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, RCM, DNV, ABS



Technical data	Battery module	
Typ	BAT8600 Pb	BAT8600 LiFePO4
Article No.	6EP4145-8GB00-0XY0	6EP4143-8JB00-0XY0
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, RCM, DNV, ABS	CE, CB, cULus, RCM, DNV, ABS



	BAT8600 Pb	BAT8600 LiFePO4
System output capacity	Buffer times ¹⁾	
120 W	2 h 4 min	2 h 40 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 ²⁾	
+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



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 ¹⁾	< 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 voltage	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	
Electronic short-circuit protection	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	
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 ²⁾
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.	6EP3333-8SB00-0AY0	6EP3334-8SB00-0AY0	6EP1336-3BA10	6EP3337-8SB00-0AY0	6EP1333-3BA10
Article No. Ex version				6EP3337-8SC00-0AY0	
Rated input voltage – Range	120–230 V AC 85...132/170...264 V AC, automatic range switching		120–230 V AC, 110–220 V DC 85...275 V AC or 88...350 V DC	120/230 V AC 85...132/170...264 V AC, automatic range switching	120–230/230–500 V AC 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 – Inrush current ¹⁾ – Recommended miniature circuit breaker. See also FAQ	2.1/1.2 A < 10 A 6 A charact. C or 3RV2021-1xA10	4/1.9 A < 10 A 10 A charact. C or 3RV2021-1xA10	4.6–2.5 A < 20 A 10 A charact. C or 3RV2021-1xA10	15.0/8.0 A < 50 A 20 A charact. C or 3RV2411-xxA10	2.2–1.2/1.2–0.61 A < 35 A 6 A charact. C or 3RV2011-1xA10
Rated output voltage – Tolerance – Setting range	24 V DC ± 3% 24...28.8 V DC	24 V DC ± 3% 24...28.8 V DC	24 V DC ± 3% 24...28.8 V DC	24 V DC ± 3% 24...28.8 V DC	24 V DC ± 3% 24...28.8 V DC
Rated output current	5 A	10 A	20 A	40 A	5 A
– Overload behavior (power boost for 25 ms)	15 A	30 A	60 A	120 A	15 A
– Overload behavior (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, Ex version: ATEX, IECEx, ULEEx, CCC	CE, CB, cULus, SEMI F47 ³⁾ , BIS, RCM, IRAM, DNV, ABS

¹⁾ 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).

²⁾ Connection to two phases of a three-phase supply network ³⁾ 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 ²⁾	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 – Range	120–230/230–500 V AC 85...264/176...550 V AC	400–500 V 3 AC 320...575 V 3 AC	400–500 V 3 AC 320...575 V 3 AC	400–500 V 3 AC 320...575 V 3 AC	400–500 V 3 AC 320...575 V 3 AC	400–500 V 3 AC 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 – Inrush current ¹⁾ – Recommended miniature circuit breaker. See also FAQ	4.4–2.4/2.4–1.1 A < 35 A 6 A charact. C or 3RV2011-1xA10	1.2–1.0 A < 18 A 6–16 A charact. C 3-ph. coupled or 3RV2011-1DA10 or 3RV2711-1DD10	2.1–1.7 A < 13 A 10–16 A charact. C 3-ph. coupled or 3RV2011-1DA10 or 3RV2711-1DD10	1.2–1.0 A < 18 A 6–16 A charact. C 3-ph. coupled or 3RV2011-1DA10 or 3RV2711-1DD10	1.2–1.0 A < 18 A 6–16 A charact. C 3-ph. coupled or 3RV2011-1DA10 or 3RV2711-1DD10	2–1.7 A < 13 A 10–16 A charact. C 3-ph. coupled or 3RV2011-1DA10 or 3RV2711-1DD10
Rated output voltage – Tolerance – Setting range	24 V DC ± 3% 24...28.8 V DC	24 V DC ± 3% 24...28.8 V DC	24 V DC ± 3% 24...28 V DC	36 V DC ± 3% 36...40 V DC	48 V DC ± 3% 42...56 V DC	48 V DC ± 3% 46...56 V DC
Rated output current	10 A	20 A	40 A	13 A	10 A	20 A
– Overload behavior (power boost for 25 ms)	30 A	60 A	120 A	39 A	23 A	60 A
– Overload behavior (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 ³⁾ , BIS, RCM, IRAM, DNV, ABS			CE, CB, cULus, RCM, IRAM, DNV, ABS	CE, CB, cULus, RCM, SEMI F47, IRAM, DNV, ABS	CE, CB, cULus, SEMI F47, RCM, DNV, ABS

¹⁾ 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).

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

SITOP PSU6200 standard power supplies

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

						
	SITOP PSU6200 1-phase					
Technical data						
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. Article No. Ex version	6EP3321-7SB00-0AX0	6EP3331-7SB00-0AX0	6EP3332-7SB00-0AX0	6EP3323-7SB00-0AX0	6EP3333-7LB00-0AX0	6EP3333-7SB00-0AX0 6EP3333-7SC00-0AX0
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 _{in} = 230 V	150 ms at U _{in} = 230 V	150 ms at U _{in} = 230 V	90 ms at U _{in} = 230 V	90 ms at U _{in} = 230 V	80 ms at U _{in} = 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 ¹⁾	< 32 A	< 32 A	< 32 A	< 29 A	< 29 A	< 29 A
– Recommended miniature circuit breaker. 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 (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 (< 9 V hiccup)	Yes, constant current (< 15 V hiccup)	Yes, constant current (< 15 V hiccup)
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	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		

¹⁾ 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)



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
<u>6EP3324-7SB00-3AX0</u>	<u>6EP3334-7SB00-3AX0</u> <u>6EP3334-7SC00-3AX0</u>	<u>6EP3344-7SB00-3AX0</u>	<u>6EP3336-7SB00-3AX0</u> <u>6EP3336-7SC00-3AX0</u>	<u>6EP3346-7SB00-3AX0</u>	<u>6EP3337-7SB00-3AX0</u>
120–230 V AC/110–240 V DC					
85...264 V AC/85...275 V DC					
70 ms at U _{in} = 230 V	45 ms at U _{in} = 230 V	46 ms at U _{in} = 230 V	25 ms at U _{in} = 230 V	25 ms at U _{in} = 230 V	25 ms at U _e = 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	40 A
14.4 A	12 A	6 A	24 A	12 A	48 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, ULEx, CCC					

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

SITOP PSU6200 standard power supplies

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

							
	SITOP PSU6200 3-phase						
Technical data							
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 U _{in} = 400 V	30 ms at U _{in} = 400 V	30 ms at U _{in} = 400 V	25 ms at U _{in} = 400 V	25 ms at U _{in} = 400 V	25 ms at U _{in} = 400 V	25 ms at U _{in} = 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 ¹⁾	4...16 A characteristic C 3-ph. coupled ¹⁾					
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.						

¹⁾ 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/7 A, PSU100S	24 V/10 A, PSU100S	12 V/14 A, PSU100S	24 V/20 A, PSU100S
Article No.	6EP1332-2BA20	6EP1333-2BA20	6EP1322-2BA00	6EP1334-2BA20	6EP1323-2BA00	6EP1336-2BA10
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 ¹⁾	< 33 A	< 40 A	< 45 A	< 60 A	< 60 A	< 11 A
– Recommended miniature circuit breaker. See also FAQ	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					

¹⁾ 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, PSU3005	24 V/10 A, PSU3005	24 V/20 A, PSU3005	24 V/40 A, PSU3005
Article No.	6EP1433-2BA20	6EP1434-2BA20	6EP1436-2BA10	6EP1437-2BA20
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 ¹⁾	< 40	< 50	< 36	< 60 A
– Recommended miniature circuit breaker. See also FAQ	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	

¹⁾ 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

Siemens EcoTech Exception: 6EP3336-3SB00-0AX0 							
Technical data	SITOP PSU4200 1-phase					SITOP PSU4200 3-phase	
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 85–132 V AC /187–264 V AC (automatic range switching)			100–240 V AC 85–264 V AC (wide range)	400–500 V AC 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 ¹⁾	1.3 A/0.73 A < 45 A	2.1 A/1.25 A < 45 A	4.3 A/2.5 A < 60 A	4.5 A/2.4 A < 20 A	0.7 A/0.6 A < 50 A	1.4 A/1.2 A < 36 A	
– Recommended miniature circuit breaker. See also FAQ	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 ± 3% 24... 28 V DC	24 V DC ± 3% 24... 28 V DC	24 V DC ± 3% 24... 28 V DC	24 V DC ± 3% 24... 28 V DC	24 V DC ± 3% 24... 28 V DC	24 V DC ± 3% 24... 28 V DC	
Rated output current – Derating	3 A –	5 A from +60 °C (4%/K)	10 A from +60 °C (4%/K)	20 A from +60 °C (3%/K)	10 A from +60 °C (3%/K)	20 A 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) Yellow LED for I _{out} > 85%	Green LED for DC OK (24 V) Yellow LED for I _{out} > 85%	Green LED for DC OK (24 V) Yellow LED for I _{out} > 85%	Green LED for DC OK (24 V) Yellow LED for I _{out} > 85%	Green LED for DC OK (24 V) Yellow LED for I _{out} > 85%	Green LED for DC OK (24 V) Yellow LED for I _{out} > 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, BIS, RCM, IRAM, EAC						

¹⁾ 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

Siemens EcoTech 						
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.	6EP3320-6SB00-0AY0	6EP3330-6SB00-0AY0	6EP3310-6SB00-0AY0	6EP3321-6SB00-0AY0	6EP3321-6SB10-0AY0	6EP3331-6SB00-0AY0
Article No. Ex version						
Rated input voltage – Range	100–240 V AC 85...264 V AC/110...300 V DC		100–240 V AC 85...264 V AC/110...300 V DC			
Mains buffering	> 40 ms (at 187 V)	> 40 ms (at 187 V)	> 40 ms (at 187 V)			
Rated line frequency	50/60 Hz	50/60 Hz	50/60 Hz			
Rated input current – Inrush current ¹⁾	0.3–0.2 A < 20 A	0.3–0.2 A < 20 A	0.36–0.22 A < 26 A	0.53–0.30 A < 25 A	0.63–0.33 A < 25 A	0.70–0.35 A < 25 A
– Recommended miniature circuit breaker. 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 – Tolerance – Setting range	12 V DC ± 3% None	24 V DC ± 3% None	5 V DC ± 3% 4.6...5.4 V DC	12 V DC ± 3% 10.5...16.1 V DC	DC 15 V ± 3% 10.5...16.1 V DC	24 V DC ± 3% 22.2...26.4 V DC
Rated output current – Overload behavior on startupn – Derating	0.9 A 1.35 A (für 200 ms)	0.6 A 0.9 A (for 200 ms)	3.0 A 4.5 A (for 200 ms) from +55 °C (2%/K)	1.9 A 2.85 A (for 200 ms) from +55 °C (2%/K)	1.9 A 2.85 A (für 200 ms) from +55 °C (2%/K)	1.3 A 1.95 A (für 200 ms) 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 (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, LR, EAC		CE, CB, cULus, cURus, BIS for 24 V/1.3 A, IRAM, RCM, NEC Class 2, SEMI F47, DNV, ABS, BV, LR, EAC			

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

¹⁾ 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 – Range	100–240 V AC 85...264 V AC/110...300 V DC				100–240 V AC 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 – Inrush current ¹⁾	0.71–0.37 A < 50 A	1.13–0.61 A < 50 A	1.24–0.68 A < 55 A	1.22–0.66 A < 52 A	1.95–0.97 A < 31 A
– Recommended miniature circuit breaker. See also FAQ	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 – Tolerance – Setting range	5 V DC ± 3% 4.6...5.4 V DC	12 V DC ± 3% 10.5...16.1 V DC	15 V DC ± 3% 10.5...16.1 V DC	24 V DC ± 3% 22.2...26.4 V DC	24 V DC ± 3% 22.2...26.4 V DC
Rated output current – Overload behavior on startup – Derating	6.3 A 9.45 A (for 200 ms) from +55 °C (2%/K)	4.5 A 6.75 A (for 200 ms) from +55 °C (2%/K)	4.0 A 6.0 A (for 200 ms) from +55 °C (2%/K)	2.5 A 3.75 A (for 200 ms) from +55 °C (2%/K)	4.0 A 6.0 A (for 200 ms) 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, BIS for 24 V/2.5 A, IRAM, RCM, NEC Class 2, SEMI 47, DNV, ABS, BV, LR, EAC				CE, CB, cULus, cURus, BIS and RCM for 6SB00, IRAM, SEMI F47, DNV, ABS, BV, LR, EAC, for 6SB00:BIS, RCM, IRAM. Ex version: ATEX, IECEx, ULEx, CCC

SITOP in **SIMATIC** design

							
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	6EP7133-6AB00-0BN0	6EP7133-6AE00-0BN0	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					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 rated value)	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 ¹⁾	< 45 A	< 13 A	< 23 A	< 67 A	< 40 A	< 60 A	< 40 A
– Recommended miniature circuit breaker. See also FAQ	16 A charact. B, 16 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
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		310 x 135.5 (w/o plug-in connection) x 90
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, BIS. Ex version: ATEX, IECEx, ULEx, CCC	CE, CB, cULus, RCM, DNV, ABS, BV, LR, ATEX, IECEx, ULEx, CCC, FM	CE, CB, cULus, BIS, RCM, DNV, ABS, BV, LR. Ex version: ATEX, IECEx, ULEx, CCC, FM		CE, CB, cULus, RCM, ABS, DNV, ATEX, IECEx, ULEx, CCC, FM		CE, ULus 508

¹⁾ 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).

²⁾ The CCC was applied for on January 26. Certification is expected in April 2026.

DC/DC converter



Technical data	DC/DC converter									
Output voltage/current, type	24 V/2.5 A PSU3400 uni	24 V/4 A, PSU3400	12 V/8 A, PSU3400	24 V/5 A, PSU3400	12 V/15 A, PSU3400	24 V/10 A, PSU3400	24 V/3.5 A NEC Class 2, PSU3400	24 V/5 A, PSU3400	24 V/10 A, PSU3400	24 V/20 A, PSU400M
Article No.	6EP3332-0TA00-0AY0	6EP3133-0TA10-0AY0	6EP3123-0TA00-0AY0	6EP3133-0TA00-0AY0	6EP3124-0TA00-0AY0	6EP3134-0TA00-0AY0	6EP3233-0TA10-0AY0	6EP3233-0TA00-0AY0	6EP3234-0TA00-0AY0	6EP1536-3AA00
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 ¹⁾
– Range	18...264 V DC, 88...264 V AC	9...18 V DC	18...32 V DC, 14...18 V DC, short-term with derating possible	14... 32 V DC, derating for 14...18 V DC	14... 32 V DC, derating for 14...18 V DC	14... 32 V DC, derating for 14...18 V DC	28... 60 V DC, startup from 36 V, derating for 28–36 V	28... 60 V DC, startup from 36 V, derating for 28–36 V	28... 60 V DC, startup from 36 V, derating for 28–36 V	300...900 V DC, 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) See also FAQ	16 A charact. B or C	16 A characteristic B or C	10 A characteristic B or C	10 A characteristic B or C	16 A characteristic B or C	16 A characteristic B or C	10 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), 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, restart	Yes, restart	Yes, restart	Yes, restart	Yes, restart	Yes, restart	Yes, restart	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, RCM								CE, CB, cULus, RCM, DNV

¹⁾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.

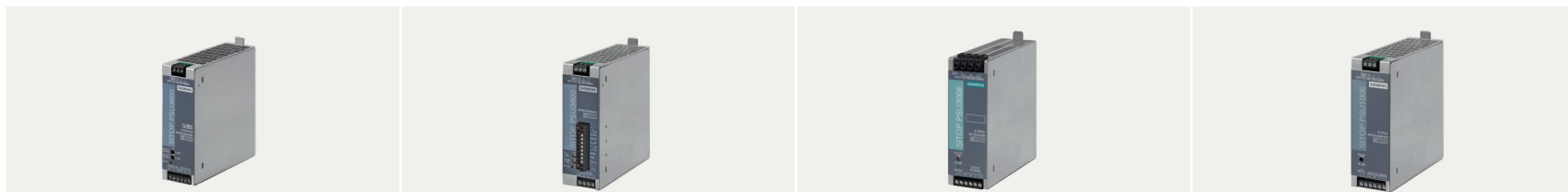
Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified).

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 (Voltage range selector switch)	100–120/200–240 V AC (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 ¹⁾	< 45 A	< 45 A	< 55 A	< 60 A	< 60 A
– Recommended miniature circuit breaker See also FAQ	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				
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	CE, cULus, cURus, BIS	CE, cULus, cURus, BIS

¹⁾ 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).



Technical data	Two outputs	Flexible output 0–52 V	Slim design	
Output voltage/current, type	2 x 15 V/3.5 A, SITOP PSU3600	3...52 V/10A, SITOP PSU3600	24 V/5 A, PSU300E	48 V/5 A, PSU100E
Article No.	6EP3323-0SA00-0BY0	6EP3343-0SA00-0AY0	6EP1433-0AA00	6EP3344-0SB00-0AY0
Rated input voltage	120–230 V AC, 110–220 V DC	120–230 V AC, 110–220 V DC	400 V 3 AC	120/230 V AC
– Range	85...264 V AC, DC 88...250 V	85...264 V AC, DC 88...250 V	320...480 V 3 AC	85...132/170...264 V AC
Mains buffering	> 80 ms (at 230 V AC)	> 80 ms (at 230 V AC)	> 50 ms (at 400 V)	> 20 ms (at 93/187 V)
Rated line frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Rated input current	2.2–1.3 A	2.6–1.3 A	0.36 A	4.4–2 A
– Inrush current ¹⁾	< 35 A	< 35 A	< 15 A	< 58 A
– Recommended miniature circuit breaker See also FAQ	6–10 A characteristic C	6–10 A characteristic C	6–10 A charact. C	10 A charact. C
Rated output voltage	2 x 15 V DC	24 V DC	24 V DC	48 V DC
– Tolerance	± 1%	± 1%	± 3%	± 3%
– Setting range	12...28 V DC	0...52 V DC ²⁾	24...29 V DC	48...54 V DC
Rated output current	2 x 3.5 A (max. 60 W per output)	2–10 A (max. 120 W)	5 A	5 A
– Derating	–	–	–	from +60 °C
Efficiency at rated values, approx.	88%	88%	90%	92%
Signaling contact "DC o. k."	No	Yes, and current monitor	Yes	Yes
Remote On/Off	No	No	No	No
Parallel switching	Yes	Yes	No	Yes, 2 units
Electronic short-circuit protection	Yes, restart	Yes, constant current	Yes, restart	Yes, restart
EMF suppression (EN 55022)	Class B	Class B	Class A	Class A
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...+60 °C	–25...+70 °C
Installation	DIN rail	DIN rail	DIN rail	DIN rail
Dimensions (W x H x D) in mm	42 x 125 x 125	42 x 125 x 135	42 x 125 x 125	42 x 125 x 125
Weight approx.	0.55 kg	0.55 kg	0.6 kg	0.5 kg
Certification	CE, cULus, NEC Class 2, RCM	CE, CB, cULus, RCM	CE, CB, cULus	CE, CB, cULus

¹⁾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).

²⁾Via analog control voltage signal 0...2.5 V

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

NEW



Technical data	Integrated MOSFETs for redundancy	Flat design Slim design Power supplies for charging batteries		
Output voltage/current, type	24 V/20 A, PSR6200	12 V/20 A, PSU3800	24 V/17 A, PSU3800	24 V/30 A, 40 A, PSU3800
Article No.	6EP3336-7SB10-3AX0 ²⁾	6EP3424-8UB00-0AY0	6EP3436-8UB00-0AY0	6EP3437-8UB00-0AY0 ¹⁾
Rated input voltage	120–240 V AC/110–240 V DC	400–500 V 3 AC	400–500 V 3 AC	400–500 V 3 AC
– Range	85...264 V AC/85...275 V DC	320...575 V 3 AC	320...575 V 3 AC	320...575 V 3 AC
Mains buffering	25 ms at U _{in} = 230 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
Rated input current	4.4/2.2 A	0.7–0.6 A	1.2–1.0 A	2.1–1.7 A
– Inrush current ¹⁾	< 8 A	< 18 A	< 18 A	< 13 A
– Recommended miniature circuit breaker See also FAQ	6–16 A characteristic B/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
Rated output voltage	24 V DC, reverse voltage protection up to 60 V	12 V DC	24 V DC	24 V DC
– Tolerance	± 3%	± 3%	± 3%	± 3%
– Setting range	24–28 V	12...14 V DC	24...29 V DC	24...28.8 V DC
Rated output current	20 A (extra power for 5 s/min: 24 A)	20 A	17 A	30 A/40 A switchable
– Derating	from +60 °C (1%/K)	–	from +60 °C (1.7%/K)	from +60 °C (5%/K)
Efficiency at rated values, approx.	95.3%	94%	94%	94%
Signaling contact "DC o. k."	Yes/Diagnostics	Yes	Yes	Yes
Remote On/Off	No	Yes	Yes	Yes
Parallel switching	Yes	Yes	Yes	Yes
Electronic short-circuit protection	Yes, constant current (< 15 V hiccup)	Yes, constant current or latching shutdown selectable		
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	–30 ... +70 °C (startup from –40 °C)	–25...+70 °C	–25...+70 °C	–25...+70 °C
Installation	DIN rail	DIN rail	DIN rail	DIN rail
Dimensions (W x H x D) in mm	70 x 135 x 155	70 x 125 x 125	70 x 125 x 125	135 x 145 x 150
Weight approx.	1.5 kg	1.2 kg	1.2 kg	3.3 kg
Certification	CE, CB, SEMI F47, cULus	CE, CB, cULus, RCM, DNV, ABS		CE, cULus, SEMI F47, RCM, DNV, ABS

¹⁾ 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).

²⁾ Via analog control voltage signal 0...2.5 V

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

Special designs and applications

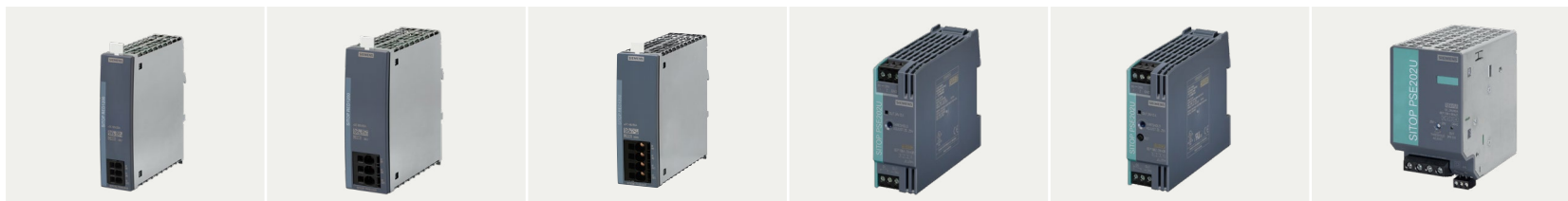


Technical Data		Power supply with high degree of protection			Power supply system with high degree of protection
Output voltage/current, type	24 V/5 A, PSU100P	24 V/8 A, PSU100P ¹⁾	24 V/40 A, PSH00	48 V/20 A, PSH00	24 V/46 A/6 outputs, PDP6200
Article No.	6EP1333-7CA10	6EP1334-7CA10	6EP3437-0SH00-3AV0	6EP3447-0SH00-3AV0	6EP3437-7DH00-3DY0
Rated input voltage	120/230 V AC, automatic range switching	120/230 V AC, automatic range switching	400–500 V 3 AC	400–500 V 3 AC	400–500 V 3 AC
– Range	85... 132/170... 264 V AC	85... 132/170... 264 V AC	340...550 V 3 AC	340...550 V 3 AC	340...550 V 3 AC
Mains buffering	> 40 ms (at I _{Out rated})	> 40 ms (at I _{Out rated})	> 25 ms (at 400 V)	> 25 ms (at 400 V)	> 25 ms (at 400 V)
Rated line frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Rated input current	2.25/1.4 A	3.5/1.52 A	1.5/1.2 A	1.5/1.2 A	1.5/1.2 A
– Inrush current ¹⁾	< 15 A	< 15 A	< 10 A	< 10 A	< 10 A
– Recommended miniature circuit breaker See also FAQ	from 6 A Charakt. C/B	from 6 A Charakt. C/B	4...16 A charact. C 3-ph. coupled, 3RV2011-1EA10 or 3RV2711-1ED10	4...16 A charact. C 3-ph. coupled, 3RV2011-1EA10 or 3RV2711-1ED10	4...16 A charact. C 3-ph. coupled, 3RV2011-1EA10 or 3RV2711-1ED10
Rated output voltage	DC 24 V	DC 24 V	24 V DC	48 V DC	Brief product description: 24 V/46 A power supply system with 150% extra power for 5 s/min and 120% continuous power up to 40 °C. Six integrated outputs (adjustable 24–28 V). Two control outputs compliant with NEC Class 2, four load outputs (10 A each) with "Safe Torque Off" shutdown function in accordance with Performance Level d, Cat. 3. LED indicators for load level, service life, and output status.
– Tolerance	± 3%	± 3%	± 3%	± 3%	
– Setting range	–	–	24...28 V DC	24...28 V DC	
Rated output current	5 A	8 A	40 A	20 A	46 A
– Derating	–	–	from +50°C (3%/K)	from +50°C (3%/K)	from +50°C (3%/K)
Efficiency at rated values, approx.	90%	93%	95.5%	96,3%	94%
Signaling contact "DC o. k."	DC o.k.	DC o.k.	DC o.k./Diagnose	DC o.k./Diagnostics	DC o.k./Diagnose
Remote On/Off	No	No	No	No	Yes, common reset for all outputs
Parallel switching	Yes, 2 units	Yes, 2 units	Yes, 2 units	Yes, 2 units	Yes, two load outputs each can be combined for 20 A
Electronic short-circuit protection	Yes, restart	Yes, restart	Yes, constant current, (< 15 V hiccup)	Yes, constant current, (< 30 V hiccup)	Shutdown of an output in the event of a short circuit or overload, adjustable from 1 to 3 A (NEC Class 2) or 1 to 10 A (load)
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)	IP67, UL: enclosure type 4 indoor	IP67, UL: enclosure type 4 indoor	IP65	IP65	IP65
Ambient temperature	–25...+60 °C	–25...+60 °C	–30... +60°C	–30... +60°C	–30... +60°C
Electrical connection	Via connectors. L1, N, PE: 7/8", output: M12-L coded, status signals: M12, 4-poled	Via connectors. L1, N, PE: 7/8", output: M12-L coded, status signals: M12, 4-poled	Via bare wire ends, length: 1 m	Via bare wire ends, length: 1 m	Via integrated terminal box and PG cable glands
Installation	Screw mounting	Screw mounting	Screw mounting	Screw mounting	Screw mounting
Dimensions (W x H x D) in mm	120 x 181 x 60,5	120 x 181 x 60,5	279 x 172 x 115	279 x 172 x 115	399 x 172 x 115
Weight approx.	1.1 kg	1.3 kg	5.3 kg	5.3 kg	6,8 kg
Certification	CE, cULus	CE, cULus	CE, CB, cULus	CE, CB, cULus	CE, CB, cULus, UR, NEC Class 2, Functional safety

¹⁾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).

SITOP expansion modules

to increase system availability



Technical data	Redundancy					
SITOP	SITOP RED1200 redundancy module			SITOP PSE202U redundancy module		
Article No.	6EP4346-7RB00-0AX0	6EP4347-7RB00-0AX0	6EP4348-7RB00-0AX0	6EP1964-2BA00	6EP1962-2BA00	6EP1961-3BA21
Article No. Ex version		6EP4347-7RC00-0AX0				
Rated input voltage – Range	12 V, 24 V, 48 V DC 10...58 V DC	12 V, 24 V, 48 V DC 10...58 V DC	12 V, 24 V, 48 V DC 10...58 V DC	24 V DC 19...29 V DC	24 V DC 19...29 V DC	24 V DC 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 ¹⁾	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		

¹⁾ 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	6EP1961-2BA31
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		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)		Single-channel signaling for channel-specific analysis via SIMATIC S7- function block. Voltage measuringpoints 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	4 x 3 A
– Setting range	0.5...10 A		0.5...10 A		0.5...3 A	3...10 A	0.5...3 A
Efficiency at rated values, approx.	typ. 98%		typ. 98%		97%	99%	99%
Parallel switching of 2 outputs	Yes, 2 outputs for 20 A		Yes, 2 outputs for 20 A		No	No	No
Electronic short-circuit protection	Yes		Yes		Yes	Yes	Yes
Radio interference suppression (EN 55022)	Class B		Class B		Class B	Class B	Class B
Degree of protection (EN 60529)	IP20		IP20		IP20	IP20	IP20
Terminals	Screw terminals and push-in		Screw terminals		Screw terminals	Screw terminals	Screw terminals
Ambient temperature	–40...+70 °C		–40...+70 °C		–25...+60 °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	72 x 80 x 72
Weight approx.	0.4 kg		0.4 kg		0.2 kg	0.2 kg	0.2 kg
Certification	CE, CB, cULus, UR, RCM, DNV			CE, CB, cULus, UR, 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 – 20 A: 6EP4990-8KK10-0XU0 – 40 A: 6EP4990-8KK20-0XU0		... the expansion module to the selectivity system: – included with the expansion module. – spare part 6EP4990-8KK00-0XU0				

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

SITOP expansion modules to increase system availability

Siemens EcoTech									
Technical data		Monitoring							
SITOP		SITOP SEL1200 selectivity module with switching characteristic				SITOP SEL1400 selectivity module with current limiting characteristic			
Article No.	6EP4437-7FB00-3CX0	6EP4437-7FB00-3DX0	6EP4438-7FB00-3DX0	6EP4448-7FB00-3CX0	6EP4437-7EB00-3CX0	6EP4437-7EB00-3DX0	6EP4438-7EB00-3DX0		
Article No. Ex version			6EP4438-7FC00-3DX0				6EP4438-7EC00-3DX0		
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, RCM, DNV, pending: ABS. Ex version: ATEX, IECEx, ULEEx, CCC								

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



Technical data			Mains buffering up to the seconds range	
SITOP	PBM1200 power boost module	CHO1400 chopper module	SITOP PSE201U buffer module ¹⁾ , 200 ms/40 A	SITOP BUF1200 buffer module, 300 ms/40 A
Article No.	6EP4240-7HB00-0AX0	6EP4548-7XB00-3AX0	6EP1961-3BA01	6EP4231-7HB00-0AX0
Article No. Ex version				6EP4231-7HC00-0AX0
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 ¹⁾ . 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 _{in} > 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

¹⁾ 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 _s	5 kW _s	5 kW _s
Article No.	6EP1933-2EC41	6EP1933-2EC51	6EP1935-5PG01
Article No. Ex version		6EP1 933-2EC51-8AA0	6EP1935-5PG01-8AA0
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		Description: expansion module for extending the buffering time, up to three units can be switched in parallel with one UPS500S basic unit
Rated output voltage	In buffer and normal mode 24 V DC ± 3%		
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, ULEx, CCC		CE, CB, cULus, RCM, DNV, ABS. Ex-Varianten: ATEX, IECEx, ULEx, CCC

¹⁾ 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 _s	5 kW _s	2.5 kW _s	5 kW _s	2.5 kW _s	5 kW _s	2.5 kW _s	5 kW _s
Expansion modules	–	–	1 x 5 kW _s	1 x 5 kW _s	2 x 5 kW _s	2 x 5 kW _s	3 x 5 kW _s	3 x 5 kW _s
Total energy	2.5 kW _s	5 kW _s	7.5 kW _s	10 kW _s	12.5 kW _s	15 kW _s	17.5 kW _s	20 kW _s
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

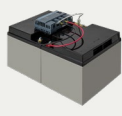
SITOP DC UPS with battery modules for bridging longer power failures



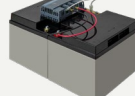
Technical data	Mains buffering up to the hours range				
SITOP	UPS1600	UPS1600	UPS1600	Battery module BAT1600	Battery module BAT1600
Energy storage				LiFePO4 batteries	Lead batteries
Output voltage/current or charge	24 V/10 A	24 V/20 A	24 V/40 A	24 V/2.5 Ah Li	24 V/3.2 Ah
				for UPS1600 10 A	for UPS1600 10 A und 20 A
Article No.	6EP4134-3AB00-0AY0	6EP4136-3AB00-0AY0	6EP4137-3AB00-0AY0	6EP4132-0JA00-0AY0	6EP4133-0GA00-0AY0
– with USB interface	6EP4134-3AB00-1AY0	6EP4136-3AB00-1AY0	6EP4137-3AB00-1AY0		
– with Ethernet/PROFINET interface	6EP4134-3AB00-2AY0	6EP4136-3AB00-2AY0	6EP4137-3AB00-2AY0		
– Version suitable for air freight with 30% charge				6EP4132-0JA00-0AY0-Z A03	
– Ex version		6EP4136-3AC00-0AY0			6EP4133-0GD00-0AY0
– Ex version with Ethernet/PROFINET interface		6EP4136-3AC00-2AY0			
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 ¹⁾	
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, Ex version: ATEX, IECEx, ULEx, CCC	

¹⁾ 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	for UPS1600 10 A, 20 A, and 40 A	for UPS1600 10 A, 20 A, and 40 A
<u>6EP4134-OJA00-0AY0</u>	<u>6EP4135-0GE00-0AY0</u>	<u>6EP4137-0GE00-0AY0</u>
<u>6EP4134-OJA00-0AY0-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: 50 A/32 V	Installed battery fuse: 50 A/32 V	Installed battery fuse: 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 or wall mounting ¹⁾	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, Ex version: ATEX, IECEx, ULEx, CCC		

¹⁾ 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	8h 30 min	30 h
2 A	1 h 13 min	50 min	3 h 39 min	4h 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 page 23): [siemens.com/tst-powersupply](https://www.siemens.com/tst-powersupply)

Uninterruptible power supplies

NEW: SITOP DC UPS with capacitor modules

for bridging frequent power failures



Technical data	Frequent power failures lasting up to several minutes	
SITOP CAS1600 capacitor module	SuCAP	SuCAP
Energy storage	Double-layer capacitors	
Output voltage/charge	24 V/0.3 Ah	24 V/0.5 Ah
	for UPS1600 10 A, 20 A, and 40 A	for UPS1600 10 A, 20 A, and 40 A
Article No.	6EP4134-0HA00-0AY0	6EP4135-0HA00-0AY0
Input voltage	Recommended end-of-charge voltage: set automatically by SITOP UPS1600	
Charging current	40 (3 A/4 A/5 A via UPS1600)	40 (3 A/4 A/5 A via UPS1600)
Rated output voltage	24 V DC	24 V DC
Rated output current	40 A	40 A
Peak output current	120 A for 25 ms, 60 A for 2 s/min	120 A for 25 ms, 60 A for 5 s/min
Mains buffering	5 s/40 A	12 s/40 A
Relative temporary capacity loss at 20°C per month, typical	20–30% per day	20–30% per day
Storage/Discharge Note	SuCAPs do not need to be charged during storage – recharging is not required	
Operating indicator via 3-color LED	Green = buffering ready; yellow = buffering at risk; red = buffering not possible.	
Overload and short-circuit protection	Built-in battery fuse: 50 A/32 V	
Parallel switching	Yes, up to 4 units	Yes, up to 4 units
Degree of protection (EN 60529)	IP20	IP20
Ambient temperature	–40...+60 °C	–40...+60 °C
Installation	DIN rail or wall mounting using wall mounting kit 6EP4990-0MK00-0XU0	
Dimensions (W x H x D) in mm	89 x 156 x 168	157 x 156 x 168
Weight approx.	2.1 kg	3.3 kg
Certification	CE, CB, cULus, RCM	

SITOP CAS1600 – buffer times and charging times



SITOP CAS1600	SuCAP 0.3 Ah	SuCAP 0.5 Ah
Load current	Buffer times*	
0,5 A	6:30 min	13:22 min
1 A	3:52 min	7:58 min
2 A	2:06 min	4:22 min
3 A	1:26 min	2:59 min
4 A	1:05 min	2:16 min
6 A	43 s	1:31 min
8 A	32 s	1:08 min
10 A	25 s	54 s
12 A	21 s	45 s
14 A	18 s	38 s
16 A	14 s	33 s
20 A	12 s	26 s
30 A	7 s	17 s
40 A	5 s	12 s

*) 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)

UPS1600 load type	Charging times for $U_{in} \geq 24$ V	
10 A (3 A*)	4:00 min	4:20 min
20 A (4 A*)	1:50 min	3:20 min
40 A (5 A*)	1:25 min	2:15 min

* Charging current I_{load} : 3A, 4A, 5A, depending on the rated current of SITOP UPS1600 (load type)

SITOP CAS1600 – Service life and charge/discharge cycles



SITOP CAS1600	SuCAP 0.3 Ah	SuCAP 0.5 Ah
Operating temperature	Service life in years	
–40° C	15	15
–30° C	15	15
–20° C	15	15
–10° C	15	15
0° C	15	15
10° C	15	15
20° C	15	15
25° C	15	15
30° C	8	8
40° C	4	4
50° C	2	2
60° C	1	1

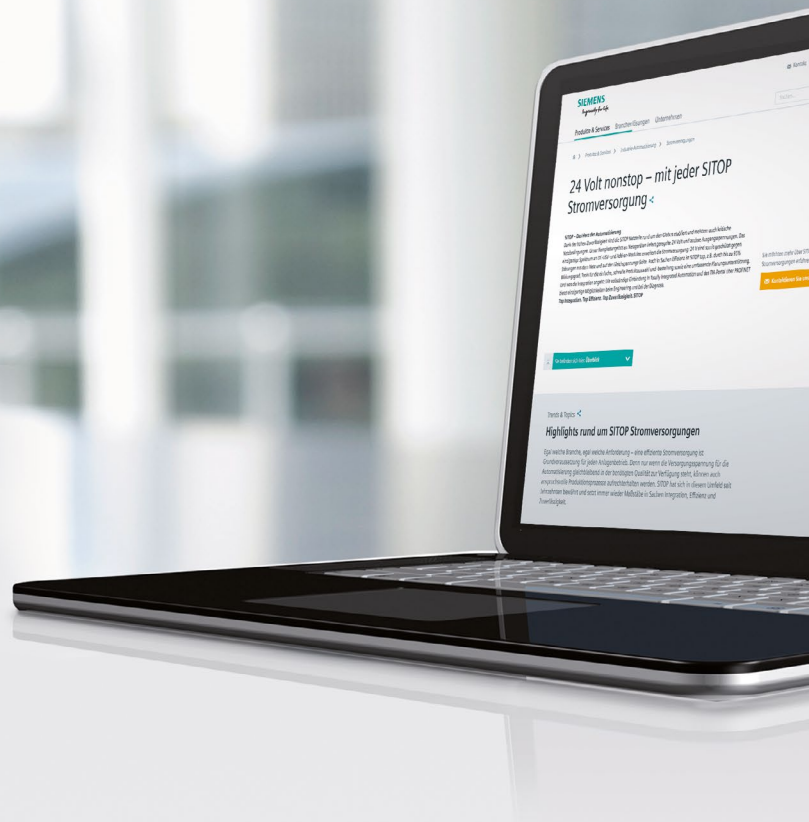
	Charge/discharge cycles	
Number	500,000	500,000

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
- › Photos, graphics, 3D models, and CAE data:
[Image database](#)

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