





### Always available, always safe: SITOP

A reliable, constant supply of power is indispensable to the efficient operation of any plant – 365 days a year. This is precisely what SITOP represents, our perfectly matched, complete range of products that sets new standards in reliability, compactness and functionality. SITOP proves its value a million times a day in practical use – protecting against plant shutdown and production downtimes.



### Reliable, functional, ...

The product lines of our family of regulated power supply units cover just about all requirements in automation engineering:

- New: SITOP lite, the cost-effective basic power supply
- LOGO!Power, the flat power supply unit for low power ratings
- SITOP compact, the slim power supply unit for low power ratings
- SITOP smart for all standard applications
- SITOP in SIMATIC design
- SITOP modular for the highest demands

In addition, SITOP versions meet special requirements regarding design, ambient conditions, and output voltage. Regardless of which switched-mode power supply you are using: You will profit from the highest quality, reliability and functionality.

### ... extremely compact, ...

Broad functionality and high performance do not have to take up a lot of space. This is proven within the scope of every SITOP advancement, e.g. the SITOP compact product line for power ratings up to 100 W. The most compact power supply unit even only requires 22.5 mm space on the DIN rail.

### ... and highly efficient

The SITOP compact line is optimally suited for distributed applications – not only because of its small footprint, but also due to its minimal heat generation in the control box. Power loss is low over the entire load range, even in noload operation.

The LOGO!Power units have also been optimized for a lower power loss. Furthermore, the 3-phase SITOP smart devices have a degree of efficiency above 90 %.

### Tailored safety

The quality of the 24 V DC power supply unit alone does not guarantee a fault-free power supply. Power failures, extreme supply voltage fluctuations, or a defective load can stop plant operation and cause considerable costs. In answer to this, SITOP offers a unique range of expansion modules to protect against faults on the primary and secondary end – all the way to complete all-round protection. Just against power failure, three SITOP solutions are available for 24 V buffering, including the completely maintenance-free UPS with innovative capacitor technology.

### For all networks worldwide

Thanks to its high level of reliability, SITOP has long become established worldwide – and it can even handle critical conditions. The wide input voltage range allows a connection to almost any electrical power system worldwide. SITOP units are CE and UL/cUL-certified by default. Many devices have approvals for special applications such as in shipbuilding (GL) or in hazardous areas (ATEX).

### Quick delivery - for highest availability

SITOP power supplies increase the availability of your plant, and the units themselves are highly available – because they are all in stock.

### Cost-effective basic power supply

The new range of power supplies is designed for standard requirements in industrial environments and offers all important functions at a favorable price, of course without compromising quality and the proverbial SITOP reliability. The wide input voltage range with manual switchover supports connection to a wide range of 1-phase supply systems. Thanks to the narrow width, the primary switched-mode regulators require little space on the DIN rail, and the good efficiency results in low thermal losses in the control cabinet. Short-circuit and overload protection as well as UL approval for export ensure problem-free use.

### Its essential characteristics are

- 24 V/2.5 A, 5 A and 10 A for industrial applications with standard requirements
- 1-phase wide input voltage range with manual switchover
- · Narrow mounting width
- High degree of efficiency
- Green LED for "24 V DC OK"
- Parallel connection possible
- No lateral installation clearances required
- Ambient temperature range of 0 °C to 60 °C (above 45 °C with derating)
- Cooling through natural convection
- Short-circuit and overload protection
- · Certification in accordance with cULus



### The slim power supply unit for control boxes

Thanks to the extremely space-saving slim design, the new power supply series for the lower performance range is especially suited to distributed applications in control boxes or in small control cabinets. The switched-mode power supplies are characterized by their low power throughout over the entire load range. The losses are extremely low even during idling which predestines them for supplying machines and plants which are frequently in stand-by mode.

The SITOP PSU100C power supplies have a widerange input for AC and DC networks; plug-in terminals facilitate the electrical connection.

### **Essential product features**

- 24 V / 0.6, 1.3, 2.5 and 4 A, 12 V / 2 and 6.5 A
- Small mounting surface thanks to its slim design
- Wide input voltage range for 85 V to 264 V AC or 110 V to 300 V DC
- High efficiency across the entire load range. Up to 28 % energy savings in comparison with similar units
- Low energy consumption during no-load operation or stand-by. Energy savings of up to 53 % are possible
- Adjustable output voltage
- Green LED for "Output voltage o.k."
- Plug-in terminals
- Temperature range from -20°C to +70°C
- Comprehensive certification, e.g. ATEX



### The flat power supply unit for distribution boards

The miniature power supply units now offer even greater performance in the smallest space. The efficiency has been improved throughout the entire load range and the power loss in no-load operation has been halved. The wide input voltage range now also allows operation on DC voltage, the switch-on response has been optimized for capacitive loads, and the operating temperature range has been extended to +70 °C. The power supplies with logic module design can now be used extremely flexibly in a number of applications – thanks to their flat, stepped profile in distribution boards, for example.

### **Essential product features**

- 2 performance classes, each with 5 V, 12 V and 15 V DC
- 3 performance classes with 24 V DC
- Flat LOGO! design
- Wide input voltage range from 85 V to 264 V AC or 110 V to 300 V DC respectively
- Constant current for connecting loads with high inrush current
- Power reserve on starting up through 1.5 times rated current for capacitive loads
- Adjustable output voltage
- Green LED for "Output voltage o.k."
- Temperature range from -20 °C to +70 °C
- Comprehensive certification, e.g. ATEX and GL



### The powerful standard power supply

SITOP smart is the optimum power supply for many 24 V applications, with the SITOP PSU300S 10, 20 and 40 A now also for 3-phase networks. Whether 1-phase or 3-phase: They offer compact dimensions, a strong performance, and a favorable price. Despite its compactness it offers an outstanding overload withstand capability.

Thanks to the Extra Power feature with 1.5 times the rated current for 5 seconds, even high inrush loads can be switched on without any problems. With a continuous rated power of 120 percent, the slim power supply units are among the most reliable of their kind.

Numerous certifications facilitate universal and global use and permit their use in hazardous areas.

### **Essential product features**

- 24 V / 2.5, 5, 10, 20 and 40 A for standard applications
- 24 V / 10 A wall-mounted for high shock and vibration requirements
- Capable of providing Extra Power (150 %) for brief operational overloads
- Can be permanently overloaded with 120 % (provided ambient temperature is less than 45 °C)
- No lateral installation clearances required
- Output voltages are adjustable up to 28 V
- PSU300S: Signaling contact "24 V DC OK"
- Comprehensive certification, e.g. GL and ATEX
- Expandable with DC UPS, redundancy module, and the selectivity and diagnosis module



# SITOP power supplies in SIMATIC design

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

The design and functionality of the original power supplies of the SIMATIC merge optimally into the PLC network. As well as the following SIMATIC systems, they also supply other loads reliably with 24 V DC:

- SIMATIC S7-1200 the new micro PLC is supplied by the compact PM1207 power module. The automatic range selection function ensures that the unit can be easily connected to 1-phase 120 V and 230 V line supplies.
- SIMATIC S7-200 the flat power supply is also perfectly suited for low mounting depths.
- SIMATIC S7-300 the innovated system and load power supplies require up to 33 % less space on the S7 mounting rail than the previous PS307. The automatic range selection function for changeover to 1-phase 120/230 V AC line supplies prevents incorrect operator settings. The connecting comb to the CPU is included in the scope of supply; an optional adapter allows the unit to be snapped onto DIN mounting rails.
- SIMATIC ET200pro in IP67, this supply is used for the electronics, encoders and load voltage supply of the new I/O device. With a signaling contact for "24 V DC o.k." and "Overtemperature", and a second connector for looping through the input voltage.



### Technology power supply for demanding solutions

SITOP modular meets the highest requirements for functionality, e.g. for use in complex plants and machines. The wide input voltage range enables connection to any system in the world and guarantees a high level of safety in the event of large voltage fluctuations. The power boost function briefly supplies up to three times the rated current. In the case of an overload, you can choose between constant current with automatic restart, or latching shutdown.

The innovated power supplies SITOP PSU100M 20 A with 1-phase connection, the SITOP PSU300M 20 and 40 A 3-phase, and the SITOP PSU400M 20 A with a wide-range DC input have even more to offer. Due to their slim design, they are among the most compact units in their performance class. The innovations include the integrated signaling contact for "24 V DC OK", the extended input range, the high efficiency and 1.5 times the rated current for up to 5 seconds.

### **Essential product features**

- For demanding applications of 5 to 40 A
- DC/DC converter 24 V / 20 A for drive and battery systems
- 48 V / 10 and 20 A enables small cable cross-sections
- · Compact metal housing
- No lateral installation clearances required
- Wide input voltage range
- Extra Power of 150 % for brief operational overload
- Power Boost of 150 % for triggering protective equipment
- Selectable short-circuit characteristics
- Soft characteristic curve selectable for parallel switching
- · High efficiency
- Operating status indicated by 3 LEDs
- Expandable with SITOP add-on modules and DC UPS





# SITOP in special design, made for special uses

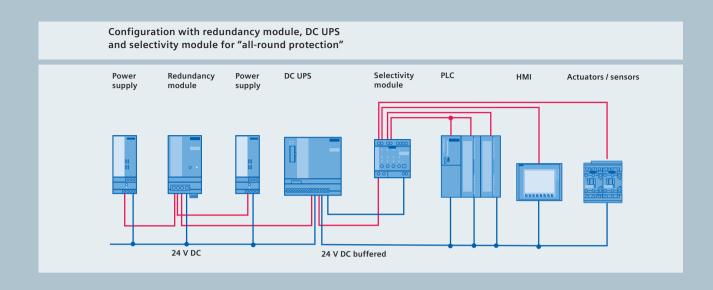
### Well prepared for special tasks and conditions

Whether restricted installation conditions, harsh ambient conditions, or special input or output voltages are concerned: These standard power supply units also fulfill exceptional requirements. It is the purpose of the new, cost-effective power supplies PSU100D, which reside in an aluminium housing, to provide you with 12 V and 24 V voltages. The sturdy aluminium housing can be screwed directly to a wall. Or, if the task at hand is to charge batteries, you can use the SITOP PSU300B which is optimized for battery charging. This power supply comes in slim design and 3-phase wide range input.

- PSU100D cost-effective power supplies up to 300 W, for direct wall mounting, in many orientations
- SITOP flat design in flat housing
- SITOP 3.7 A Class UL II with power limiting to 100 W
- SITOP PSU300P in degree of protection IP67, identical construction to the SIMATIC ET200 pro PS but without a 2nd connector for looping through the input voltage
- SITOP PSU300B power supply optimized for battery charging, with 3-phase wide input voltage range, 12 V and 24 V output voltages
- DC/DC converter in narrow design for 12 V from the 24 V direct voltage
- SITOP dual with 2 outputs, e.g. for electronic loads that are supplied with ±15 volts
- SITOP flexi flexibly adjustable output
   3 ... 52 V DC for extensive functions such as adjustable output current 2 ... 10 A, current monitor and sensor cable







# Expansion and DC UPS modules for increased system availability

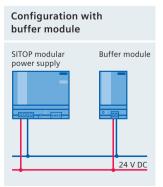
Our extensive range of expansion modules offers reliable protection against the most diverse hazard sources.

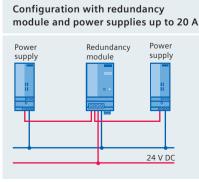
### Buffer module against brief power failure

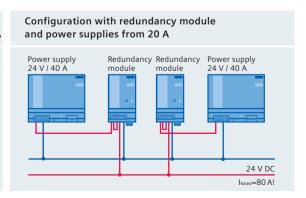
Power failures usually only last a few 100 ms – voltage drops that the buffer module, in combination with the SITOP modular basic units, bridges reliably and cost-effectively. Electrolytic capacitors provide the energy without delay when required.

### Redundancy for even more safety

Additional protection against failure of the 24 V DC supply is provided by the redundancy module. Thanks to decoupling via diodes, one failed power supply unit has no influence on the others. In this way, the 24 V supply is always secured.







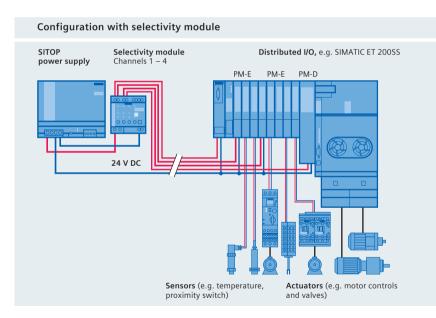


### Selective protection of 24 V load circuits

The SITOP PSE200U selectivity module is specially tailored to the characteristics of switched-mode power supplies. The electronics permit brief current peaks and switch longer overloads off-circuit – even on long thin cables and with "creeping" short circuits in which the current is limited by the high resistance.

Miniature circuit breakers do not trip here or they trip too late, even if the power supply could provide the current. The selectivity module switches the faulty load circuit off reliably and supply to the remaining loads continues completely interruption-free, so total failure of the plant can be avoided.

The fault is reported via a common signaling contact and indicated by an LED on the affected load circuit. The fault can thus be located quickly and standstill times minimized.



### Selectivity with the selectivity module

Channel 1: Electronics supply interface module

Channel 2: Encoder supply potential group 1 via power module PM-E

Channel 3: Load supply potential group 2 via power module PM-E

Channel 4: Load supply potential group 3 via power module PM-DD





### Reliable 24 V DC at all times – even when the power fails

Power failures can cause plant standstills, take up time, and generate costs.

### SITOP offers three solutions to counter this:

- Buffer module for cost-effective supplementation of the SITOP modular. Electrolytic capacitors buffer the 24 V DC for up to a period of seconds.
- SITOP UPS500, the totally maintenance-free UPS with double-layer capacitors for 24 V DC buffering up to a period of minutes for backing up data and powering down the application.
- SITOP DC UPS with lead gel battery for bridging power failures for up to a period of hours to allow processes to continue.

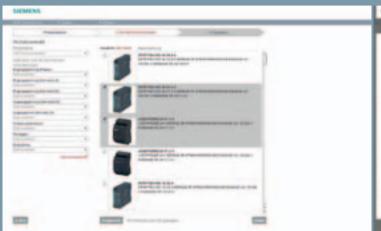
Both DC UPS systems can be easily integrated into PC-based automation solutions using a free software tool (www.siemens.com/sitop-ups). It supports further processing of the status messages, safe powering down, and correct restart of the system.



The innovative UPS500S and UPS500P (IP65) with long-life capacitors save on battery replacement.



The SITOP DC UPS with battery modules protects against long power failures.





Step 1: The appropriate power supplies are preselected based on technical features relevant to the user's choice

Step 2: Several power supplies can be compared based on their technical data for further product selection

### Integrated support, from selection to configuration

The SITOP selection tool (www.siemens.com/sitop-selection-tool) facilitates the rapid and easy selection of power supply units in accordance with your specific requirements. With this tool, which is available on the internet and in the Industry Mall, the selection results can be saved, the selected units can be placed in the Mall's shopping basket for subsequent ordering or the units can be ordered directly. CAD data and circuit diagram macros support easy and rapid configuration.





Step 3: After the desired products have been selected from the product list, these selections can be exported or transferred directly to the user's Industry Mall shopping basket

Step 4: CAD and CAE data in the Siemens image database for easy configuration

### The easy way to the best power supply

This is how easy it is: The relevant parameters are selected step by step based on a few technical features, and the appropriate products are displayed immediately. The selection parameters can be changed at any time. For additional support with product selection, several products can be compared on the basis of their technical data. In the display of the technical data, the user can choose between all data, all identical data, or all different data. The selected products are then saved in a product list which can be exported in various file formats or directly placed in the Industry Mall's shopping basket Moreover, further information on the selected products can be directly called up – e.g. 3D data, circuit diagram macros, certificates and operating instructions.

### CAD and CAE data for easy configuration

We also offer efficient support for construction, configuration and documentation: 2D and 3D construction data as well as circuit diagram macros are available for selected SITOP power supply units. These data can be easily downloaded via the Siemens image database in the DXF, STEP and EPLAN formats. Of course, the data are also available for power supply units selected via the SITOP selection tool.

### **Customer benefits:**

- Continuously updated product data directly from the manufacturer
- Direct download from the internet without registration
- Direct application for construction design
- Reduced machine and system documentation expenditures
- Improved system planning reliability

# Configuration with SITOP UPS500S (based on double-layer capacitors) Power supply SITOP UPS500S SITOP UPS501S Industrial PC SITOP 24 V DC unbuffered 24 V DC buffered HMI Actuators (e.g. motor controls and valves) Distributed I/O with sensors

24 V DC buffering for process data back-up and regular PC shutdown

### Configuration with SITOP DC UPS and battery modules SPS SITOP Battery module Converter Switch Indicator Power DC UPS light 24 V DC buffered 24 V DC Motor with unbuffered incremental (e.g. motor controls and valves) (e.g. temperature, proximity switch)

24 V DC buffering for maintained communication, signaling, measured sensor values and position values

# Maintenance-free DC UPS with capacitors: SITOP UPS500

The high-capacity double-layer capacitors store enough energy for powering down PC-based systems.

### Completely maintenance-free

Even in high ambient temperatures, the capacitors still have an extremely long service life. There is no need for maintenance or replacement of the energy store so the investment in the DC UPS pays off after a short time. And because the capacitors do not emit any gases, there is also no need for control cabinet ventilation. Short charging times quickly restore buffer readiness after a long power failure.

### Can be used inside and outside the control cabinet

The UPS500S for DIN rail mounting can be supplemented with expansion modules to extend the buffering time. The SITOP UPS500P is designed in degree of protection IP65 and can be used in distributed configurations, e.g. supplied by the SITOP PSU300P power supply unit. The long design of the aluminum housing is optimally suitable for support arm mounting.

- SITOP UPS500S 15 A, up to 20 kWs
- SITOP UPS500P 7 A, 5/10 kWs in IP65
- Capacitors save on battery replacement
- Long service life even at high temperatures
- · No ventilation of the installation site

## SITOP DC UPS with battery modules

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

### High availability through battery management

The elaborate battery management system ensures optimal charging of the batteries – and thus reliable buffer readiness. The active battery test function even checks the age of the battery. That makes preventive replacement of the battery superfluous – and results in significant cost savings.

### Extremely communicative

All the relevant messages are output via floating contacts, and optionally also via serial interface or USB.

- DC UPS modules 6 A, 15 A and 40 A
- Maintenance-free battery modules up to 12 Ah
- Monitoring of operational readiness, battery feeder, age and charge status
- Long service life of the loads and batteries through battery management
- Interruption-free transition from stand-by mode to buffer mode

### **Further information**

More about SITOP: www.siemens.com/sitop

SITOP Selection Tool: www.siemens.com/sitop-selection-tool

Information material for downloading: www.siemens.com/sitop-infomaterial

Manuals for downloading: www.siemens.de/sitop/manuals

CAx data (2D, 3D, circuit diagram macro) for downloading: www.siemens.com/sitop-cax

Order electronically over the Internet using the Industry Mall: www.siemens.com/industrymall

Your can find personal contact at: www.siemens.com/automation/partner

Siemens AG Industry Sector Industry Automation P.O. Box 48 48 90026 NUREMBERG GERMANY Subject to changes without prior notice 11/11 Order No.: E80001-A2620-P310-V1-7600 Dispo 46305 WÜ/36262 MI.SC.ST.XXXX.52.2.01 WS 11116.0 Printed in Germany © Siemens AG 2011 The information provided in this brochure contains merely general descriptions or characteristics of performance which in case of actual use do not always apply as described or which may change as a result of further development of the products. An obligation to provide the respective characteristics shall only exist if expressly agreed in the terms of contract.

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### **SIEMENS**



Technical data, October 2011

# SITOP power supply

### SITOP – reliable 24 V DC power supply



Efficient operation of a machine or plant requires a reliable, constant power supply. The quality and reliability of the SITOP regulated power supplies ensure high levels of safety in DC power supply in industrial engineering and building management systems.

They supply a regulated 24 volts but also other output voltages. Even in the case of large input voltage variations, the output voltage is kept stable with a high degree of accuracy. This enables the use of primary switched-mode power supplies in many applications for the supply of sensitive electronic systems – all the way up to loads requiring high currents up to 40 A.

The fan-free power supplies are characterized by their compact and rugged design, high levels of efficiency and high overload capacity. The large input voltage range and the international approvals mean that use is possible in almost all supply networks worldwide.

### The complete SITOP range







In addition to the power supplies, the perfectly coordinated complete range offers a unique choice of modules – from those that protect the 24 V DC power supply against interference on the primary and secondary side, right up to those providing all-round protection.

For example, with the innovative SITOP UPS500 capacitor based uninterruptible power supply or with the new SITOP PSE200U selectivity module for reliable selectivity in the output circuit.

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### SITOP lite Cost-favorable basic power supply

	new!	new!	new!
Technical data		SITOP lite	
Output voltage / current, type	24 V / 2.5 A, PSU100L	24 V / 5 A, PSU100L	24 V / 10 A, PSU100L
Order No.	6EP1332-1LB00 1)	6EP1333-1LB00 1)	6EP1334-1LB00 <sup>1)</sup>
Rated input voltage  – Range	120/230 V AC 85132/170264 V AC	120/130 V AC 85132/170264 V AC	120/130 V AC 85132/170264 V AC
Mains buffering	> 20 ms (at 93/187 V)	> 20 ms (at 93/187 V)	> 20 ms (at 93/187 V)
Rated line frequency	50/60 Hz	50/60 Hz	50/60 Hz
Rated input current – Inrush current (25 °C)	1.1/0.65 A < 27 A	2.1/1.15 A < 32 A	4.3/2.4A < 65 A
<ul> <li>Recommended<sup>1)</sup> miniature circuit breaker</li> </ul>	3 A Characteristic C	6 A Characteristic C	10 A Characteristic C
Rated output voltage  – Tolerance  – Setting range	24 V DC ± 3 % 22.826.4 V DC	24 V DC ± 3 % 22.826.4 V DC	24 V DC ± 3 % 22.826.4 V DC
Rated output current  — Derating	2.5 A from +45 °C (2 %/K)	5 A from +45 °C (2 %/K)	10 A from +45 °C (2 %/K)
Efficiency at rated values, approx.	85 %	86%	90%
No-load loss	Yes	Yes	Yes
Parallel switching	Yes, constant current	Yes, constant current	Yes, constant current
Electronic short-circuit protection	Class A	Class A	Class A
Radio interference suppression (EN 55022)	Not applicable	Yes	No
Degree of protection (EN 60529)	IP20	IP20	IP20
Ambient temperature	0+60°C	0+60°C	0+60°C
Dimensions (WxHxD) in mm	32.5 x 125 x 125	50 x 125 x 125	70 x 125 x 125
Weight approx.	0.4 kg	0.5 kg	0.75 kg
Certification	CE, cULus	CE, cULus	CE, cULus

<sup>1)</sup> Scheduled delivery release: December 2011

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

### SITOP compact Slim power supply for control boxes

				new!	new!	
Technical data	Overall width 22.5 mm		vidth 30 mm	Overall width 45 mm		idth 52.5 mm
Output voltage / current, type	24 V/0.6 A, PSU100C	24 V/1.3 A, PSU100C	12 V/2 A, PSU100C	24 V/2.5 A, PSU100C	24 V/4 A, PSU100C	12 V/6.5 A, PSU100C
Order No.	6EP1331-5BA00	6EP1331-5BA10	6EP1321-5BA00	6EP1332-5BA00	6EP1332-5BA10	6EP1322-5BA10
Rated input voltage  – Range	100 – 230 V AC 85264 V AC/ 110300 V DC	100 – 230 V AC 85264 V AC/ 110300 V DC	100 – 230 V AC 85264 V AC/ 110300 V DC	100 – 230 V AC 85264 V AC/ 110300 V DC	100 – 230 V AC 85264 V AC/ 110300 V DC	100 – 230 V AC 85264 V AC/ 110300 V DC
Mains buffering	> 20 ms (at 120/230 V)	> 20 ms (at 120/230 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  – Recommended miniature circuit breaker	0.28 – 0.18 A 10 A characteristic C 16 A characteristic B	0.63 – 0.31 A 10 A characteristic C 16 A characteristic B	0.63 – 0.31 A 10 A characteristic C 16 A characteristic B	1.33 – 0.67 A 10 A characteristic C 16 A characteristic B	1.6 – 0.75 A 10 A characteristic C 16 A characteristic B	1.6 – 0.75 A 10 A characteristic C 16 A characteristic B
Rated output voltage – Tolerance – Setting range	24 V DC ± 3 % -	24 V DC ± 3 % 22.226.4 V DC	12 V DC ± 3 % 10.512.9 V DC	24 V DC ± 3 % 22.226.4 V DC	24 V DC ± 3 % 22.226.4 V DC	12 V DC ± 3 % 10.512.9 V DC
Rated output current  – Derating	0.6 A from +55 °C (3 %/K)	1.3 A from +55 °C (3 %/K)	2 A from +55 °C (3 %/K)	2.5 A from +50 °C (3 %/K)	4 A from +50 °C (3 %/K)	6.5 A from +50 °C (3 %/K)
Efficiency at rated values, approx.	82 %	86%	82%	89 %	88%	85 %
No-load loss	< 0.5 W	< 0.75 W	< 0.5 W	< 0.75 W	< 0.75 W	< 0.75 W
Parallel switching	No	Yes	Yes	Yes	Yes	Yes
Electronic short-circuit protection	Yes, restart	Yes, restart	Yes, restart	Yes, restart	Yes, restart	Yes, restart
Radio interference suppression (EN 55022)	Class B	Class B	Class B	Class B	Class B	Class B
Supply harmonics limitation (EN 61000-3-2)	Not applicable	Not applicable	Not applicable	Not applicable	Yes	Yes
Degree of protection (EN 60529)	IP20	IP20	IP20	IP20	IP20	IP20
Ambient temperature	−20+70°C	−20+70°C	−20+70°C	−20+70°C	−20+70°C	−20+70°C
Dimensions (WxHxD) in mm	22.5 x 80 x 100	30 x 80 x 100	30 x 80 x 100	45 x 80 x 100	52.5 x 80 x 100	52.5 x 80 x 100
Weight approx.	0.12 kg	0.17 kg	0.17 kg	0.22 kg	0.32 kg	0.32 kg
Certification	CE, UL, CSA, ATEX	CE, UL, CSA, ATEX	CE, UL, CSA, ATEX			

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

### LOGO!Power Flat power supply for distribution boards

Technical data		54 mm	design			72 mm	design		90 mm design
Output voltage / current	5 V/3 A	12 V/1.9 A	15 V/1.9 A	24 V/1.3 A	5 V/6.3 A	12 V/4.5 A	15 V/4 A	24 V/2.5 A	24 V/4 A
Order No.	6EP1311-1SH03	6EP1321-1SH03	6EP1351-1SH03	6EP1331-1SH03	6EP1311-1SH13	6EP1322-1SH03	6EP1352-1SH03	6EP1332-1SH43	6EP1332-1SH52
Rated input voltage – Range	100 – 240 V AC 85264 V AC/11	0300 V DC			100 – 240 V AC 85264 V AC/11	0300 V DC			100 – 240 V AC 85264 V AC/ 110300 V DC
Mains buffering	> 40 ms (at 187 V	<b>'</b> )			> 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 (25 °C)  – Recommended miniature circuit breaker	0.36 – 0.22 A < 26 A 10 A characteristi	0.53 – 0.30 A < 25 A c C resp. 16 A char	0.63 – 0.33 A < 25 A acteristic B	0.70 – 0.35 A < 25 A	0.71 – 0.37 A < 50 A 10 A characteristi	1.13 – 0.61 A < 55 A c C resp. 16 A char	1.24 – 0.68 A < 55 A acteristic B	1.22-0.66 A < 46 A	1.95 – 0.97 A < 30 A 10 A char. C resp. 16 A char. B
Rated output voltage  – Tolerance  – Setting range	5 V DC ± 3 % 4.65.4 V DC	12 V DC 10.516.1 V DC	15 V DC 10.516.1 V DC	24 V DC 22.226.4 V DC	5 V DC ± 3 % 4.65.4 V DC	12 V DC 10.516.1 V DC	15 V DC 10.516.1 V DC	24 V DC 22.226.4 V DC	24 V DC ± 3 % 22.226.4 V DC
Output current – rated value – Derating	3.0 A from +55 °C (2 %/K)	1.9 A from +55 °C (2 %/K)	1.9 A from +55 °C (2 %/K)	1.3 A from +55 °C (2 %/K)	6.3 A from +55 °C (2 %/K)	4.5 A from +55 °C (2 %/K)	4.0 A from +55 °C (2 %/K)	2.5 A from +55 °C (2 %/K)	4.0 A from +55 °C (2 %/K)
Efficiency at rated values, approx.	77 %	80%	80%	85%	83%	85 %	85%	88%	89%
No-load loss	< 1.5 W	< 1.8 W	< 2 W	< 2 W	< 1.5 W	< 1.9 W	< 2.3 W	< 1.8 W	< 2 W
Parallel switching	Yes				Yes				Yes
Electronic short-circuit protection	Yes, constant cur	rent			Yes, constant cur	rent			Yes, constant curren
Radio interference suppression (EN 55022)	Class B				Class B				Class B
Supply harmonics limitation (EN 61000-3-2)	Not applicable				Not applicable				Yes
Degree of protection (EN 60529)	IP20				IP20				IP20
Ambient temperature	−20+70°C				−20+70°C				−20+70°C
Dimensions (WxHxD) in mm	54 x 90 x 55				72 x 90 x 55				90 x 90 x 55
Weight approx.	0.17 kg				0.25 kg				0.34 kg
Certification	CE, cULus, FM, GL, ATEX	CE, cULus, FM, GL, ABS, ATEX	CE, cULus, FM, GL, ATEX	CE, cULus, FM, GL, ABS, ATEX, SEMI F47, NEC Class 2	CE, cULus, FM, GL, ATEX	CE, cULus, FM, GL, ABS, ATEX	CE, cULus, FM, GL, ATEX	CE, cULus, FM, GL, ABS, ATEX, SEMI F47, NEC Class 2	CE, cULus, FM, GL, ABS, ATEX

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

### SITOP in SIMATIC design

Technical data	SIMATIC S7-1200 design	SIMATIC S7-200 design		SIMATIC S	7-300 design		SIMATIC ET200 pro PS
Output voltage / current, type	24 V/2.5 A, PM1207	24 V/3.5 A	24 V/2 A, PS307	24 V/5 A, PS307	24 V/10 A, PS307	24 V/5 A, outdoor <sup>1)</sup>	24 V/8 A
Order No.	6EP1332-1SH71	6EP1332-1SH31	6ES7307-1BA01-0AA0	6ES7307-1EA01-0AA0	6ES7307-1KA02-0AA0	6ES7307-1EA80-0AA0	6ES7 148-4PC00-0HA0
Rated input voltage	120/230 V AC automatic range selection	120/230 V AC	120/230 V AC automatic range selection	120/230 V AC automatic range selection	120/230 V AC automatic range selection	120/230 V AC	400 – 480 V 3 AC
– Range	85132 V/176264 V AC	93132 V/187264 V AC	85132 V/170264 V AC	85132 V/170264 V AC	85132 V / 170264 V AC		340550 V 3 AC
Mains buffering	> 20 ms (at 93/187 V)	> 20 ms (at 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)	15 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	50/60 Hz
Rated input current – Inrush current (25 °C)	1.2/0.67 A < 13 A	1.65/0.95 A < 33 A	0.9/0.5 A < 22 A	2.3/1.2 A < 20 A	4.2/1.9 A < 55 A	2.2/1.2 A < 45 A	2 A < 40 A
<ul> <li>Recommended miniature circuit breaker</li> </ul>	16 A charact. B, 10 A charact. C	10 A charact. C, 6 A charact. D	3 A charact. C	6 A charact. C	10 A charact. C	10 A charact. C	3RV1021-1DA15 or fuse max. 25 A, time-lag
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	± 3 %	± 5 %	± 3 %	± 3 %	± 3 %	± 3 %	-5 % <i>l</i> +3 %
– Setting range	-	-	-	-	-	-	-
Rated output current	2.5 A	3.5 A	2 A	5 A	10 A	5 A	8 A
Efficiency at rated values, approx.	83 %	84 %	84 %	86%	90%	84 %	88 %
Parallel switching	Yes	Yes	Yes	Yes	Yes	No	No
Electronic short-circuit protection	Yes, constant current characteristic	Yes, restart	Yes, restart	Yes, restart	Yes, restart	Yes, restart	Yes, restart
Radio interference suppression (EN 55022)	Class B	Class B	Class B	Class B	Class B	Class A	Class A
Supply harmonics limitation (EN 61000-3-2)	Not applicable	Yes	Not applicable	Yes	Yes	No	No
Degree of protection (EN 60529)	IP20	IP20	IP20	IP20	IP20	IP20	IP67
Ambient temperature	0+60°C	0+60°C	0+60°C	0+60°C	0+60°C	−25+70°C	−25+55°C
Installation	DIN rail or wall mounting	DIN rail or wall mounting	Can be mounted on S7 rail. 6EP1971-1BA00	Mounting adapter for DIN rail	35 x15 mm:	Can be mounted on S7 rail. Mounting adapter: 6ES7390-6BA00-0AA0	Screw mounting on SIMATIC ET 200pro system rail
Dimensions (WxHxD) in mm	70 x 100 x 75	160 x 80 x 62	40 x 125 x 120	60 x 125 x 120	80 x 125 x 120	80 x 125 x 120	310 x 135.5 x 90+connector
Weight approx.	0.3 kg	0.5 kg	0.4 kg	0.6 kg	0.8 kg	0.57 kg	2.8 kg
Certification	CE, cULus, GL	CE, cULus	CE, cULus, ATEX, Hazardous	Location Class I Div 2 Groups	A, B, C & D, T4	CE, UL, CSA	CE

<sup>&</sup>lt;sup>1)</sup> Condensation permissible, increased vibration and shock resistance

### SITOP smart Powerful standard power supply

Technical data			SITOP sn	nart 1-phase		
Output voltage / current, type	24 V/2.5 A	24 V/5 A	24 V/5 A	24 V/10 A	24 V/10 A	24 V/10 A, wallmount
Order No.	6EP1332-2BA10	6EP1333-2AA01	6EP1333-2BA01	6EP1334-2AA01	6EP1334-2BA01	6EP1334-2AA01-0AB0
Rated input voltage – Range	120/230 V AC 85132/170264 V AC					
Mains buffering	> 20 ms (at 93/187 V)					
Rated line frequency	50/60 Hz					
Rated input current – Inrush current (25°C) – Recommended miniature circuit breaker	1.1/0.65 A < 14 A 3 A characteristic C	2.1/1.15 A < 32 A 6 A characteristic C	2.1/1.15 A < 32 A 6 A characteristic C	4.1/2.4 A < 65 A 10 A characteristic C	4.1/2.0 A < 65 A 10 A characteristic C	4.1/2.0 A < 65 A 10 A characteristic C
Rated output voltage – Tolerance – Setting range	24 V DC ± 3 % 22.828 V DC	24 V DC ± 3 % 22.828 V DC	24 V DC ± 3 % 22.828 V DC	DC 24 V ± 3 % DC 22.828 V	24 V DC ± 3 % 22.828 V DC	24 V DC ± 3 % 22.828 V DC
Rated output current  – Permanently up to 45 °C  – Overload behavior (extra power for 5 s/min)	2.5 A 3 A 3.75 A	5 A 6 A 7.5 A	5 A 6 A 7.5 A	10 A 12 A 15 A	10 A 12 A 15 A	10 A 12 A 15 A
Efficiency at rated values, approx.	85%	87 %	87 %	90%	91 %	90%
Parallel switching	Yes	Yes	Yes	Yes	Yes	Yes
Electronic short-circuit protection	Yes, constant current					
Radio interference suppression (EN 55022)	Class B					
Supply harmonics limitation (EN 61000-3-2)	Not applicable	No	Yes	No	Yes	Yes
Degree of protection (EN 60529)	IP20	IP20	IP20	IP20	IP20	IP20
Ambient temperature	0+60°C	0+60°C	0+60°C	0+60°C	0+60°C	0+60°C
Dimensions (WxHxD) in mm	32.5 x 125 x 125	50 x 125 x 125	50 x 125 x 125	70 x 125 x 125	70 x 125 x 125	70 x 125 x 125
Weight approx.	0.4 kg	0.5 kg	0.5 kg	0.75 kg	0.8 kg	0.85 kg
Certification	CE, UL, CSA, GL, ATEX, Haz	ardous Location Class I Div 2 G	Groups A, B, C & D, T4			

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

### SITOP smart Powerful standard power supply

Technical data		SITOP smart 3-phase	
Output voltage / current, type	24 V/10 A, PSU300S	24 V/20 A, PSU300S	24 V/40 A, PSU300S
Order No.	6EP1434-2BA10	6EP1436-2BA10	6EP1437-2BA20
Rated input voltage  – Range	400 – 500 V 3 AC 340550 V 3 AC	400 – 500 V 3 AC 340550 V 3 AC	400 – 500 V 3 AC 340550 V 3 AC
Mains buffering	> 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
Rated input current  – Inrush current (25 °C)  – Recommended miniature circuit breaker	0.7 – 0.5 A < 36 A From 6 – 16 A charact. C 3-ph. coupled or 3 RV2011-1DA10 or 3 RV2711-1DD10	1.2 – 1.0 A < 36 A From 6 – 16 A charact. C 3-ph. coupled or 3 RV2011-1DA10 or 3 RV2711-1DD10	1.7 – 1.5 A < 60 A From 10 – 16 A charact. C 3-ph. coupled or 3 RV2011-1DA10 or 3 RV2711-1DD10
Rated output voltage  – Tolerance  – Setting range	24 V DC ± 3 % 2428 V DC	24 V DC ± 3 % 2428 V DC	24 V DC ± 3 % 2428 V DC
Overload characteristics  - Permanently up to 45 °C  - Overload behavior (extra power for 5 s/min)  - Derating	10 A 12 A 15 A	20 A 24 A 30 A from +60 °C (5 %/K)	40 A 48 A 60 A from +60 °C (2.5 %/K)
Efficiency at rated values, approx.	91 %	91%	91.5 %
Parallel switching	Yes	Yes	Yes
Electronic short-circuit protection	Yes, restart	Yes, restart	Yes, restart
Radio interference suppression (EN 55022)	Class B	Class B	Class B
Supply harmonics limitation (EN 61000-3-2)	Yes	Yes	Yes
Degree of protection (EN 60529)	IP20	IP20	IP20
Ambient temperature	0+70°C	0+60°C	0+60°C
Dimensions (WxHxD) in mm	90 x 145 x 150	90 x 145 x 150	150 x 145 x 150
Weight approx.	1.6 kg	1.6 kg	3.7 kg
Certification	CE, cULus, ATEX	CE, cULus, ATEX, SEMI F47	CE, cULus, ATEX, SEMI F47

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

### SITOP modular Technology power supply for demanding solutions













Technical data			SITOP modular 1-p	phase and 2-phase <sup>1)</sup>		
Output voltage / current, type	24 V/5 A	24 V/10 A	24 V/20 A, PSU100M	24 V/20 A, PSU400M	24 V/20 A	24 V/40 A
Order No.	6EP1333-3BA00	6EP1334-3BA00	6EP1336-3BA10	6EP1536-3AA00	6EP1336-3BA00	6EP1337-3BA00
Rated input voltage – Range		120-230/230-500 V AC 85264/176550 V AC	120/230 V AC 85275 V AC/88350 V DC	600 V DC 200900 V DC, start-up from approx. 400 V	120/230 V AC 93132/183264 V AC	120/230 V AC 95132/190264 V AC
Mains buffering	> 25 ms (at 120/230 V)	> 25 ms (at 120/230 V)	> 20 ms (at 120/230 V)		> 20 ms (at 230 V)	> 20 ms (at 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 (25°C)  – Recommended miniature circuit breaker	2.2 – 1.2/1.2 – 0.61 A < 35 A 6 A charact. C or 3RV1021-1xA10	4.4 – 2.4/2.4 – 1.1 A < 35 A 6 A charact. C or 3RV1021-1xA10	4.6 – 2.5 A < 20 A 6 A charact. C or 3RV1021-1xA10	0.85 A < 8 A	7.7/3.5 A < 60 A 10 A charact. C or 3RV1421-1xA10	15.0/8.0 A < 125 A 20 A charact. C or 3RV1421-xxA10
Rated output voltage – Tolerance – Setting range	24 V DC ± 3 % 2428.8 V DC	24 V DC ± 3 % 2428.8 V DC	24 V DC ± 3 % 2428.8 V DC	24 V DC ± 3 % 2428.8 V DC	24 V DC ± 3 % 2428.8 V DC	24 V DC ± 3 % 2428.8 V DC
Rated output current	5 A	10 A	20 A	20 A	20 A	40 A
<ul> <li>Overload behavior (power boost for 25 ms)</li> </ul>	15 A	30 A	60 A		60 A	120 A
<ul> <li>Overload behavior (extra power for 5 s/min)</li> </ul>			30 A	30 A		
– Derating	from +60 °C	from +60 °C	from +60 °C	from +60 °C (5.5 %/K), 200300 V DC, 820900 V DC	from +60 °C	from +60 °C
Efficiency at rated values, approx.	87 %	87 %	93%	95 %	89 %	88%
Parallel switching	Yes, output characteristic	can be switched to paralle	loperation			
Electronic short-circuit protection	Yes, constant current or la	atching shutdown selectab	le. Constant current: approx. 1.15	x rated output current		
Radio interference suppression (EN 55022)	Class B	Class B	Class B	Class A (emission)	Class B	Class B
Supply harmonics limitation (EN 61000-3-2)	Yes	Yes	Yes	No	Yes	No
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	0+70 °C	0+70 °C
Dimensions (WxHxD) in mm	70 x 125 x 125	90 x 125 x 125	90 x 125 x 125	90 x 125 x 125	160 x 125 x 125	240 x 125 x 125
Weight approx.	1.2 kg	1.4 kg	1.5 kg	1.2 kg	2.2 kg	2.9 kg
Certification	CE, cULus, SEMI F47 <sup>2)</sup>	CE, cULus, SEMI F47 <sup>2)</sup>	CE, cULus, SEMI F47 <sup>2)</sup>	CE, cULus (GL and ABS in preparation)	CE, cULus, SEMI F47 <sup>3)</sup>	CE, cULus, SEMI F47 <sup>4)</sup>

<sup>1)</sup> Connection to 2 phases of a three-phase supply system

<sup>3)</sup> In conjunction with one buffer module

<sup>10 2)</sup> At input voltage 208 to 230 V AC













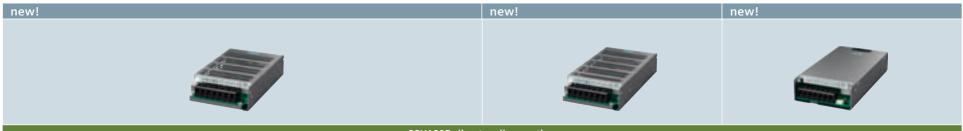
	SITOP m	odular 3-phase		SITOP mod	ular 3-phase, 48 V
24 V/20 A, PSU300M	24 V/20 A	24 V/40 A, PSU300M	24 V/40 A	48 V/10 A, PSU300M	48 V/20 A
6EP1436-3BA10	6EP1436-3BA00	6EP1437-3BA10	6EP1437-3BA00	6EP1456-3BA00	6EP1457-3BA00
400 – 500 V 3 AC 320575 V 3 AC	400 – 500 V 3 AC 340550 V 3 AC	400 – 500 V 3 AC 320575 V 3 AC	400 – 500 V 3 AC 340550 V 3 AC	400 – 500 V 3 AC 320575 V 3 AC	400 – 500 V 3 AC 340550 V 3 AC
> 15 ms (at 400 V)	> 6 ms (at 400 V)	> 15 ms (at 400 V)	> 6 ms (at 400 V)	> 15 ms (at 400 V)	> 6 ms (at 400 V)
50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
1.2 – 1.0 A < 18 A 6 – 16 A charact. C 3-ph. coupled or 3RV2011-1DA10 or 3RV2711-1DD10	1.1 – 0.9 A < 35 A 6 – 16 A charact. C 3-ph. coupled or 3RV2011-1DA10 or 3RV2711-1DD10	2.6 – 2.1 A < 56 A 10 – 16 A charact. C 3-ph. coupled or 3RV2011-1DA10 or 3RV2711-1DD10	2.0 – 1.7 A < 70 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	2.2 A (with 400 V) < 70 A 10 – 16 A charact. C 3-ph. coupled or 3RV2011-1DA10 or 3RV2711-1DD10
24 V DC ± 3 % 2428.8 V DC	24 V DC ± 3 % 2428.8 V DC	24 V DC ± 3 % 2428.8 V DC	24 V DC ± 3 % 2428.8 V DC	48 V DC ± 3 % 4256 V DC	48 V DC ± 3 % 4256 V DC
20 A	20 A	40 A	40 A	10 A	20 A
60 A	60 A	120 A	120 A	23 A	60 A
30 A		60 A		15 A	
from +60 °C (3 %/K)	from +60 °C	from +60 °C (3.8 %/K)	from +60 °C	from +60 °C (3 %/K)	
93%	90%	93%	90%	93%	90 %
Yes, output characteristic can	be switched to parallel operation				
Yes, constant current or latching	ng shutdown selectable. Constant	current: approx. 1.15 x rated outpu	ıt current		
Class B	Class B	Class B	Class B	Class B	Class B
Yes	Yes	Yes	Yes	Yes	Yes
IP20	IP20	IP20	IP20	IP20	IP20
−25+70°C	0+70°C	−25+70°C	0+70°C	−10+70°C	0+60°C
70 x 125 x 125	160 x 125 x 125	150 x 125 x 150	240 x 125 x 125	70 x 125 x 125	240 x 125 x 125
1.2 kg	2.0 kg	3.4 kg	3.2 kg	1.2 kg	3.2 kg
CE, cULus, SEMI F47	CE, UL, CSA, SEMI F47	CE, cULus, SEMI F47	CE, UL, CSA, SEMI F47	CE, cULus	CE, UL, CSA

# SITOP in special design, for special uses

	new!	new!	
Technical data		PSU100D direct wall mounting	
Output voltage / current	12 V/3 A	24 V/2.1 A	24 V/3.1 A
Order No.	6EP1321 – 1LD00 <sup>1)</sup>	6EP1331 – 1LD00 <sup>1)</sup>	6EP1332 – 1LD00 <sup>1)</sup>
Rated input voltage	100 – 240 V AC	100 – 240 V AC	100 – 240 V AC
- Range	85264 V AC	85264 V AC	85264 V AC
Mains buffering	> 15 ms (at 115/230 V)	> 15 ms (at 115/230 V)	> 15 ms (at 115/230 V)
Rated line frequency	50/60 Hz	50/60 Hz	50/60 Hz
Rated input current	0.65 A	1.1 – 0.7 A	1.5 – 1.0 A
– Inrush current (25°C)	< 30 A	< 60 A	< 60 A
<ul> <li>Recommended miniature circuit breaker</li> </ul>	10 A characteristic C, 16 A characteristic B		
Rated output voltage	12 V DC	24 V DC	24 V DC
- Tolerance	+/- 2 %	+/- 2 %	+/- 2 %
- Setting range	1114 V DC	2228 V DC	2228 V DC
Output current – rated value – Derating	3 A from +50 °C (2.5 %/K)	2.1 A from +50 °C (2.5 %/K)	3.1 A from +50 °C (2.5 %/K)
Efficiency at rated values, approx.	84 %	86 %	86%
Parallel switching	Yes	Yes	Yes
Electronic short-circuit protection	Yes, restart	Yes, restart	Yes, restart
Radio interference suppression (EN 55022)	Class B	Class B	Class B
Supply harmonics limitation (EN 61000-3-2)	Not applicable	Not applicable	Yes
Degree of protection (EN 60529)	IP20	IP20	IP20
Ambient temperature	−10°C+70°C	−10 °C+70 °C	−10 °C+70 °C
Installation	Wall mounting, variable installation position		
Dimensions (WxHxD) in mm	97 x 98 x 38	97 x 128 x 38	97 x 128 x 38
Weight approx.	0.37 kg	0.35 kg	0.37 kg
Certification	CE, cULus and cURus	CE, cULus and cURus	CE, cULus and cURus
Dimensions (WxHxD) in mm Weight approx.	97 x 98 x 38 0.37 kg	0.35 kg	0.37 kg

<sup>1)</sup> Scheduled delivery release: December 2011

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



PSU100D direct wall mounting									
24 V/4.1 A	12 V/8.3 A	24 V/6.2 A	24 V/12.5 A						
6EP1332-1LD10 <sup>1)</sup>	6EP1322-1LD00 <sup>1)</sup>	6EP1333-1LD00 <sup>1)</sup>	6EP1334-1LD00 <sup>1)</sup>						
100 – 240 V AC	100 – 240 V AC	100 – 240 V AC	100 – 240 V AC						
85264 V AC	85264 V AC	85264 V AC	85264 V AC						
> 15 ms (at 115/230 V)	> 15 ms (at 115/230 V)	> 15 ms (at 115/230 V)	> 15 ms (at 115/230 V)						
50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz						
2.0 – 1.1 A	2.0 – 1.1 A	3.1 – 2.0 A	4.0 – 2.0 A						
< 75 A	< 75 A	< 75 A	< 60 A						
10 A characteristic C, 16 A characteristic B									
DC 24V	12 V DC	24 V DC	24 V DC						
+/- 2 %	+/- 2 %	+/- 2 %	+/- 2 %						
DC 2228 V	1114 V DC	2228 V DC	DC 2228 V						
4.1 A from +50 °C (2.5 %/K)	8.3 A from +50 °C (2.5 %/K)	6.2 A from +50 °C (2.5 %/K)	12.5 A from +50 °C (2.5 %/K)						
86%	84 %	86%	86 %						
Yes	Yes	Yes	Yes						
Yes, restart	Yes, restart	Yes, restart	Yes, restart						
Class B	Class B	Class B	Class B						
Yes	Yes	No	Yes						
IP20	IP20	IP20	IP20						
−10 °C+70 °C	−10 °C+70 °C	−10 °C+70 °C	−10 °C+70 °C						
Wall mounting, variable installation position	on								
97 x 158 x 38	97 x 158 x 38	97 x 178 x 38	105 x 199 x 41						
0,50 kg	0.57 kg	0.55 kg	0.81 kg						
CE, cULus and cURus	CE, cULus and cURus	CE, cULus and cURus	CE, cULus and cURus						

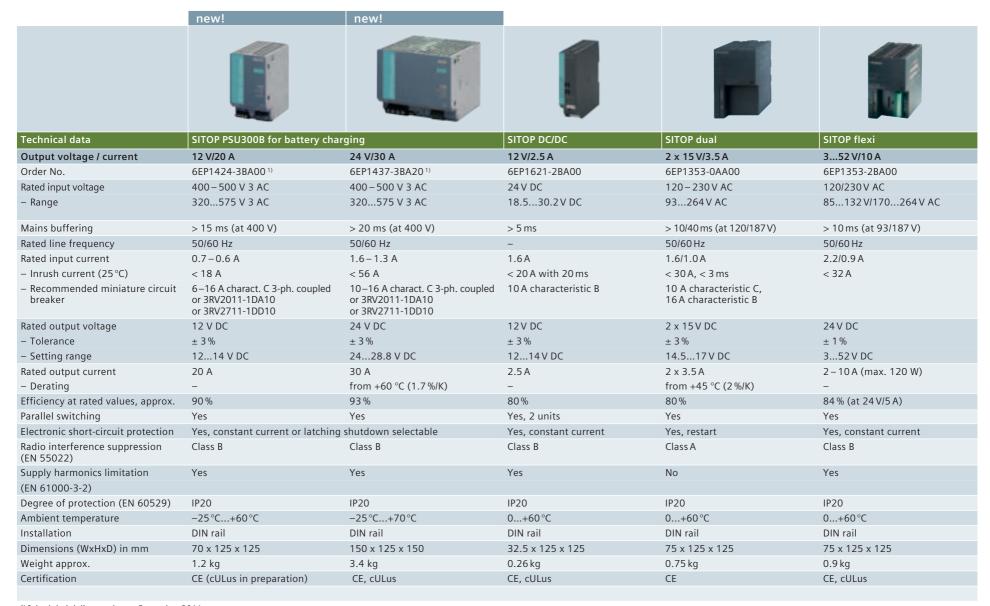
<sup>&</sup>quot;Scheduled delivery release: December 2011 Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

# SITOP in special design, for special uses

Technical data		SITOP flat design	Class 2 approval	SITOP PSU300P in IP67
Output voltage / current	24 V/5 A	24 V/10 A	24 V/3.7 A	24 V/8 A
Order No.	6EP1333-1AL12	6EP1334-1AL12	6EP1332-2BA00	6EP1433-2CA00
Rated input voltage	120/230 V AC	120/230 V AC	120/230 V AC	400 – 480 V 3 AC
- Range	85132/170264 V AC	85132/170264 V AC	93132 V/187264 V AC	340550 V 3 AC
Mains buffering	> 20 ms (at 93/187 V)	> 20 ms (at 93/187 V)	> 10 ms (at 93/187 V)	15 ms (at 400 V)
Rated line frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Rated input current	2.2/1.2 A	4/2.5 A	1.8/0.7 A	2 A
<ul><li>Inrush current (25°C)</li></ul>	< 32 A	< 65 A	< 32 A	< 40 A
<ul> <li>Recommended miniature circuit breaker</li> </ul>	6 A charact. C	10 A charact. C	6 A charact. C	3RV1021-1DA10
Rated output voltage	24 V DC	24 V DC	24 V DC	24 V DC
- Tolerance	± 1 %	± 1 %	± 3 %	-5 %/+3 %
<ul><li>Setting range</li></ul>	2229 V DC	2229 V DC	22.826.4 V <sup>1)</sup> DC	-
Output current – rated value – Derating	5 A -	10 A -	3.7 A -	8A -
Efficiency at rated values, approx.	88 %	89 %	> 80 %	88%
Parallel switching	Yes	Yes	Yes <sup>1)</sup>	No
Electronic short-circuit protection	Yes, restart	Yes, restart	Yes, restart	Yes, restart
Radio interference suppression (EN 55022)	Class B	Class B	Class B	Class A
Supply harmonics limitation (EN 61000-3-2)	No	No	Yes	No
Degree of protection (EN 60529)	IP20	IP20	IP20	IP67
Ambient temperature	0+60°C	0+60°C	0+60°C	−25°C+55°C
Installation	DIN rail	DIN rail	DIN rail	Screw mounting on SIMATIC ET 200pro system rail
Dimensions (WxHxD) in mm	160 x 130 x 60	160 x 130 x 60	70 x 125 x 125	310 x 135.5 x 90 + connector
Weight approx.	0.6 kg	0.72 kg	0.75 kg	2.8 kg
Certification	CE, cULus	CE, cULus	CE, cULus, Class2	CE

Specifications at rated input voltage and ambient temperature +25  $^{\circ}\text{C}$  (unless otherwise specified)

 $<sup>^{1)}</sup>$  Only permissible at an ambient temperature of 0 to 50  $^{\circ}\text{C}$ 



<sup>1)</sup> Scheduled delivery release: December 2011

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

# SITOP expansion modules to increase system availability

Technical data	Signaling	Mains buffering		Redundancy	
SITOP	Signaling module <sup>1)</sup>	Buffer module <sup>2)</sup>	SITOP PSE202U redundancy mo	dule	
Order No.	6EP1961-3BA10	6EP1961-3BA01	6EP1964-2BA00	6EP1962-2BA00	6EP1961-3BA21
Rated input voltage – Range	Contact rating 240 V AC/6 A	24 V DC 2428.8 V DC	24 V DC 1929 V DC	24 V DC 1929 V DC	24 V DC 2428.8 V DC
Brief description of product/ function	Signaling module for snapping onto the side of the basic unit	Buffer module for mains buffering; parallel connection at	Module for redundancy mode. Flow "Infeed 1 and 2 o.k.", switching the	pating relay contact and green LED nreshold adjustable between 20 to	for signaling 25 V DC.
	SITOP modular (6EP1x3x-3BA00, 6EP1457-3BA00); automatic contacting, with floating signaling contacts for "Output voltage o.k." and "Operating readiness o.k."; with signal input for switching the basic unit ON/OFF remotely	output of 24 V basic units (6EP1x3x-3BAxx); buffering time 200 ms at 40 A to 1.6s at 5 A load current; multiplication possible through parallel connection; maximum buffer time 10 s.	Decoupling of two 5 A power supplies or one 10 A power supply per redundancy module.	Decoupling and limitation of the output to Class 2 limit (100 W) of 2 power supplies 5 to 40 A.	Decoupling of two 24 V/5 A to 20 A power supplies or one 24 V/40 A power supply per redundancy module.
Rated output current  - Setting range	Not applicable	40 A	10 A (total output current)	3.5 A <sup>3)</sup>	40 A (total output current)
Efficiency at rated values, approx.	Not applicable	Not applicable	97%	95 %	97 %
Parallel switching	Not applicable	Yes	No	No	No
Electronic short-circuit protection	Not applicable	Yes	No	No	No
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
Ambient temperature	0+60°C	0+60°C	−20+70 °C	−20+70 °C	0+60°C
Dimensions (WxHxD) in mm	25 x 125 x 125	70 x 125 x 125	30 x 80 x 100	30 x 80 x 100	70 x 125 x 125
Weight approx.	0.15 kg	1.2 kg	0.125 kg	0.125 kg	0.5 kg
Certification	CE, UL, CSA	CE, UL, CSA	CE, cULus	CE, cULus, NEC Class 2	CE, cULus, Hazardous Location Class I Div 2 Groups A, B, C & D, T4; ATEX

new!

<sup>&</sup>lt;sup>1)</sup>Can only be combined with SITOP modular 6EP1\_3\_-3BA00 and 6EP1457-3BA00 power supply

<sup>&</sup>lt;sup>2)</sup> Can only be combined with SITOP modular power supply 24 V DC

<sup>3)</sup> Max. 8 A summation current in fault case in accordance with NEC Class 2

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





Technical data		Monitor	ing		
SITOP	SITOP PSE200U selectivity	module	SITOP select diagnosis module		
Order No.	6EP1961-2BA11	6EP1961-2BA21	6EP1961-2BA00		
Rated input voltage  – Range	24 V DC 2230 V DC		24 V DC 2230 V DC		
Brief description of product/ function	selective shutdown of fault	y load circuits, rated curren	r load circuits and their monitoring for overload; t individually adjustable; with common signaling I load circuits can be switched on sequentially.		
	Status indication via 3-colo remote reset with 24 V sign pushbutton per channel		Status indication via 2-color LED per channel; common reset via pushbutton, plug-in fuse per channel		
Rated output current	4 x 3 A	4 x 10 A	4 x 10 A		
– Setting range	0.53 A	310 A	210 A		
Efficiency at rated values, approx.	97%		97 %		
Parallel switching	No		No		
Electronic short-circuit protection	Yes		Yes		
Radio interference suppression (EN 55022)	Class B		Class B		
Degree of protection (EN 60529)	IP20		IP20		
Ambient temperature	0+60°C		0+60°C		
Dimensions (WxHxD) in mm	72 x 80 x 72		72 x 90 x 90		
Weight approx.	0.2 kg		0.4 kg		
Certification	CE, UL, cURus, Hazardous L	ocation Class I Div 2 Groups	s A, B, C & D, T4; ATEX		

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			Maintenance-free DC UPS			
SITOP	UPS500S – basic unit 15 A		UPS501S – expansion module	UPS500P – basic unit 7 A, degre	ee of protection IP65	
Energy	2.5 kWs	5 kWs	5 kWs	5 kWs	10 kWs	
Order No.	6EP1933-2EC41	6EP1933-2EC51	6EP1935-5PG01	6EP1933-2NC01 <sup>1)</sup>	6EP1933-2NC11 <sup>1)</sup>	
Input voltage	24 V DC, 2229 V, infeed from	SITOP 24 V	Infeed from basic unit	24 V DC, 22.529 V, infeed from	SITOP 24 V	
Rated input current	15.2 A + approx. 2.3 A in charg	ing mode	Description: expansion module for extending the buffering	7 A + approx. 2 A in charging mode		
Rated output voltage	In buffer and normal mode 24 V DC +/-3 %		time, up to 3 units can be switched in parallel with one	In buffer mode and normal mod	e 24 V DC +/-3 %	
Rated output current	15 A, charging current 1 A (factor 2 A selectable	tory setting)	UPS500S basic unit	7 A, charging current 2 A		
Efficiency at rated values, approx.	97.5%			96.5%		
Overload and short-circuit protection	Electronic, automatic restart			Electronic, automatic restart		
Parallel switching	No		Yes, up to 3 units	No	No	
Radio interference suppression (EN 55022)	Class B	Class B	Class B	Class B	Class B	
Degree of protection (EN 60529)	IP20	IP20	IP20	IP65	IP65	
Ambient temperature	0+60°C	0+60°C	0+60°C	0+55°C	0+60°C	
Installation	DIN rail	DIN rail	DIN rail	Screw mounting in all mounting	positions	
Dimensions (WxHxD) in mm	120 x 125 x 125	120 x 125 x 125	70 x 125 x 125	400 (without connector) x 80 x 80	470 (without connector) x 80 x 80	
Weight approx.	1.0 kg	1.0 kg	0.7 kg	1.9 kg	2.2 kg	
Certification	CE, cULus			CE		

<sup>&</sup>lt;sup>1)</sup> Connector set with input and output connector as well as prepared USB cable in 2 m length: Order no. 6EP1975-2ES00 Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

# Buffering times and charging times SITOP UPS500

				Û						
	SITOP UPS5	00S/501S config	urations						UPS500P	
Basic unit	2.5 kWs	5 kWs	2.5 kWs	5 kWs	2.5 kWs	5 kWs	2.5 kWs	5 kWs	5 kWs	10 kWs
Expansion modules	_	_	1 x 5 kWs	1 x 5 kWs	2 x 5 kWs	2 x 5 kWs	3 x 5 kWs	3 x 5 kWs	-	-
Total energy	2.5 kWs	5 kWs	7.5 kWs	10 kWs	12.5 kWs	15 kWs	17.5 kWs	20 kWs	5 kWs	10 kWs
Buffering times										

Buffering times										
Load current										
0.5 A	134 sec	236 sec	390 sec	478 sec	632 sec	748 sec	851 sec	1007 sec	284 sec	647 sec
0.8 A	90 sec	167 sec	266 sec	346 sec	440 sec	527 sec	580 sec	706 sec	190 sec	435 sec
1 A	75 sec	138 sec	219 sec	296 sec	365 sec	414 sec	490 sec	572 sec	153 sec	351 sec
2 A	38 sec	76 sec	122 sec	156 sec	203 sec	230 sec	265 sec	306 sec	80 sec	152 sec
3 A	26 sec	52 sec	82 sec	106 sec	136 sec	159 sec	186 sec	213 sec	53 sec	108 sec
4 A	19 sec	39 sec	61 sec	81 sec	101 sec	120 sec	139 sec	160 sec	40 sec	84 sec
5 A	15 sec	31 sec	49 sec	65 sec	81 sec	95 sec	111 sec	130 sec	30 sec	68 sec
6 A	12 sec	26 sec	40 sec	55 sec	67 sec	80 sec	94 sec	106 sec	25 sec	57 sec
7 A	10 sec	21 sec	34 sec	47 sec	58 sec	69 sec	81 sec	82 sec	21 sec	49 sec
8 A	8 sec	18 sec	29 sec	40 sec	50 sec	59 sec	69 sec	79 sec	-	_
10 A	6 sec	15 sec	23 sec	32 sec	39 sec	47 sec	54 sec	62 sec	-	-
12 A	4 sec	12 sec	19 sec	26 sec	32 sec	38 sec	44 sec	52 sec	-	-
15 A	3 sec	9 sec	14 sec	20 sec	25 sec	30 sec	35 sec	40 sec	-	-

Charging times										
Charging current										
2 A	54 sec	120 sec	158 sec	223 sec	263 sec	318 sec	355 sec	417 sec	130 sec	360 sec
1 A	110 sec	205 sec	311 sec	425 sec	503 sec	625 sec	695 sec	816 sec	_	_

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

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

Technical data			SITOP DC UPS, for	longer power failures				
SITOP Output voltage / current	DC UPS module 24 V/6 A	DC UPS module 24 V/15 A	DC UPS module 24 V/40 A	DC UPS battery module 24 V/1.2 Ah <sup>1)</sup>	DC UPS battery module 24 V/3.2 Ah <sup>1)</sup>	DC UPS battery module 24 V/7 Ah <sup>1)</sup>	DC UPS battery module 24 V/12 Ah <sup>1)</sup>	
				for DC UPS module 6 A	for DC UPS module 6 A and 15 A	for DC UPS module 6 A, 1 (for > 30 A to 40 A two un		
Order No.  – with serial interface  – with USB interface	6EP1931-2DC21 6EP1931-2DC31 6EP1931-2DC42	6EP1931-2EC21 6EP1931-2EC31 6EP1931-2EC42	6EP1931-2FC21 6EP1931-2FC42	6EP1935-6MC01	6EP1935-6MD11	6EP1935-6ME21	6EP1935-6MF01	
Input voltage	24 V DC, 2229 V, infee	ed from 24 V SITOP power s	upply:	Recomm. end-of-charge voltage: 26.427.3 V DC (> +20 °C), 27.329.0 V DC (< +20 °C)				
	From 24 V / 0.6 A	From 24 V/5 A	From 24 V/10 A					
Rated input current	6 A + approx. 0.85 A with empty battery	15 A + approx. 1 A with empty battery	40 A + approx. 2.6 A with empty battery	Charging current max. 0.3 A	Charging current max. 0.8 A	Charging current max. 1.75 A	Charging current max. 3 A	
Rated output voltage	24 V DC (upstream SITO	P device or battery), chargi	ng voltage: 27.0 V	24 V DC, 2227.0 V DC (no-load operation)				
Rated output current	6 A, charging current: typ. 0.4 A	15 A, charging current: typ. 0.7 A	40 A, charging current: typ. 2 A	6 A	15 A	30 A	30 A	
Efficiency at rated values, approx.	Buffer mode: 94%, Standby mode: 95%	Buffer mode: 96%, Standby mode: 96%	Buffer mode: 97 %, Standby mode: 97 %	Not applicable	Not applicable	Not applicable	Not applicable	
Overload and short- circuit protection	Electronic, automatic re	start		Installed battery fuse: 7.5 A/32 V	15 A/32 V	30 A/32 V	30 A/32 V	
Parallel switching	No	No	No	Yes	Yes	Yes	Yes	
Radio interference suppression (EN 55022)	Class B	Class B	Class B					
Degree of protection (EN 60529)	IP20	IP20	IP20	IP00	IP00	IPOO	IPO0	
Ambient temperature	−25+60°C	−25+60°C	−25+60°C	0+40°C	0+40°C	0+40°C	0+40°C	
Installation	DIN rail	DIN rail	DIN rail	DIN rail or wall mounting		Wall mounting	Wall mounting	
Dimensions (WxHxD) in mm	50 x 125 x 125	50 x 125 x 125	102 x 125 x 125	96 x 106 x 108	190 x 151 x 82	186 x 168 x 121	253 x 168 x 121	
Weight approx.	0.4 kg	0.4 kg	1.1 kg	1.8 kg	3.2 kg	6.0 kg	9.0 kg	
Certification	CE, cULus	CE, cULus	CE, cULus	CE, cURus	CE, cURus	CE, cURus	CE, cURus	

 $<sup>^{9}</sup>$  Also available: High-temperature battery module 24 V / 2.5 Ah (6EP1935-6MD31) for ambient temperatures from -40 to +60  $^{\circ}$ C Technical data subject to nominal input voltage value and +25  $^{\circ}$ C ambient temperature (unless stated otherwise)

# Selection table battery modules and buffer times

Load current	Battery module 1.2 Ah (6EP1935-6MC01)	Battery module 3.2 Ah (6EP1935-6MD11)	Battery module 7 Ah (6EP1935-6ME21)	Battery module 12 Ah (6EP1935-6MF01)	Battery module <sup>1)</sup> 2.5 Ah (6EP1935-6MD31)
1 A	30 min.	2.5 h	6 h	11 h	2 h
2 A	11 min.	45 min.	2.5 h	5 h	45 min.
3 A	4 min.	25 min.	1.5 h	3 h	30 min.
4 A	2 min.	20 min.	45 min.	2 h	20 min.
6 A	1 min.	10 min.	30 min.	1 h	13 min.
8 A	-	4 min.	20 min.	40 min.	9 min.
10 A	-	1.5 min.	15 min.	30 min.	7 min.
12 A	-	1 min.	10 min.	25 min.	5.5 min.
14 A	-	50 s	8 min.	20 min.	4.5 min.
16 A	-	40 s (15 A)	6 min.	15 min.	4 min.
20 A	-	-	3 min.	11 min.	-
25 A	-	-	2 min.	9 min.	-
30 A	_	_	1 min.	6 min.	_

 $<sup>^{1)}</sup>$  High-temperature battery module for ambient temperatures from -40 to  $+60\,^{\circ}\text{C}$ 

Buffer time determination was based on the discharging time of new and completely charged battery modules with a minimum battery temperature of +25 °C until decrease of the battery voltage to 21 V (with voltage drops in the DC UPS, approx. 20.4 V DC remain for the load)

### Selection table SITOP power supplies

Input voltage	Output current	SITOP lite	SITOP compact	LOGO!Power	SITOP smart	SIMATIC design	SITOP modular	"Special design, special use"
Output voltage 24 V	DC							
1-phase 120 V AC,	0.6A		6EP1331-5BA00					
230 V AC	1.3 A		6EP1331-5BA10	6EP1331-1SH03				
	2 A					6ES7307-1BA01-0AA0	)	6EP1331-1LD00
	2.5 A	6EP1332-1LB00	6EP1332-5BA00	6EP1332-1SH43	6EP1332-2BA10	6EP1332-1SH71		6EP1232-1AA00
	3.1 A							6EP1332-1LD00
	3.5 A					6EP1332-1SH31		
	3.7 A							6EP1332-2BA00
	4 A		6EP1332-5BA10	6EP1332-1SH52				6EP1232-1AA10
	5 A	6EP1333-1LB00			6EP1333-2AA01	6ES7307-1EA80-0AA0	6EP1333-3BA00	6EP1333-1AL12
					6EP1333-2BA01	6ES7307-1EA01-0AA0	)	
	6.2 A							6EP1333-1LD00
	10 A	6EP1334-1LB00			6EP1334-2AA01	6ES7307-1KA02-0AA0	0 6EP1334-3BA00	6EP1334-1AL12
					6EP1334-2BA01			
					6EP1334-2AA01-0A	ВО		
	12.5 A							6EP1334-1LD00
	20 A						6EP1336-3BA00	
							6EP1336-3BA10	
	40 A						6EP1337-3BA00	

### SITOP selection tool The easy way to the best power supply

The new SITOP selection tool facilitates the rapid and easy selection of suitable power supply units. The selection results can be saved or placed in the shopping basket of the Mall (online catalog and ordering system for automation and drive technology), via which the respective units can be ordered.

The tool is available on the Internet and in the Industry Mall:

www.siemens.com/sitop-selection-tool www.siemens.com/industrymall



Step 1:

The appropriate power supplies are preselected based on technical features relevant to the user's choice



tep 2:

Several power supplies can be compared based on their technical data for further product selection



tep 3:

After the desired products have been selected from the product list, these selections can be exported or transferred directly to the user's Industry Mall shopping basket

Input voltage	Output current	SITOP compact	LOGO!Power	SITOP smart	SIMATIC design	SITOP modular	"Special design special use"
Output voltage 24 V DC							
3-phase 400 – 500 V AC	5 A					6EP1333-3BA00 <sup>1)</sup>	
	8 A				6ES7148-4PC00-0HA0		6EP1433-2CA00
	10 A			6EP1434-2BA10		6EP1334-3BA00 <sup>1)</sup>	
	20 A			6EP1436-2BA10		6EP1436-3BA10	
						6EP1436-3BA00	
	30 A						6EP1437-3BA20
	40 A			6EP1437-2BA20		6EP1437-3BA10	
						6EP1437-3BA00	
24 – 110 V DC	2 A				6ES7305-1BA80-0AA0		
	0.6 A	6EP1331-5BA00					
110 – 300 V DC	1.3 A	6EP1331-5BA10	6EP1331-1SH03				
110-300 V DC	2.5 A	6EP1332-5BA00	6EP1333-1SH43				
	4 A	6EP1332-5BA10	6EP1332-1SH52				
88 – 350 V DC	20 A					6EP1336-3BA10	
600 V DC	20 A					6EP1536-3AA00	

 $^{1)}$ Connection to 2 phases 230 – 500 V AC – see data sheet SITOP modular 1-/2-phase

Grey: more information in Catalog KT10.1 or in Online Catalog CA01

Input voltage	Output	SITOP compact	LOGO!Power	SITOP modular	"Special design special use"
Output voltage 5, 12, 15, 48,	V DC				
1-phase 120 V AC, 230 V AC	5 V/3 A		6EP1311-1SH03		
	5 V/6.3 A		6EP1311-1SH13		
	12 V/1.9 A		6EP1321-1SH03		
	12 V/2.0 A	6EP1321-5BA00			
	12 V/3.0 A				6EP1321-1LD00
	12 V/4.5 A		6EP1322-1SH03		
	12 V/6.5 A	6EP1322-5BA10			
	12 V/8.3 A				6EP1322-1LD00
	15 V/1.9 A		6EP1351-1SH03		
	15 V/4 A		6EP1352-1SH03		
	3 – 52 V/2 – 10 A				6EP1353-2BA00
	2 x 15 V/3.5 A				6EP1353-0AA00
24 V DC	12 V/2.5 A				6EP1621-2BA00
	12 V/20 A				6EP1424-3BA00
2 phase 400 F00 V AC	48 V/10 A			6EP1456-3BA00	
3-phase 400 – 500 V AC	48 V/20 A			6EP1457-3BA00	

### **Further information**

More about SITOP: www.siemens.com/sitop

Information material for downloading: www.siemens.com/sitop-infomaterial

Easy selection of the suitable power supply unit with the SITOP selection tool: www.siemens.com/sitop-selection-tool

Manuals for downloading: www.siemens.com/sitop/manuals

CAx data (2D, 3D, circuit diagram macro) for downloading: www.siemens.com/sitop-cax

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