

SIEMENS



Compact 1-phase and 2-phase power supplies 24 V DC/5 A and 10 A for the highest demands

SITOP modular

Brochure

Edition
06/2014

Answers for industry.

There are now even more options for ensuring reliable 24 V supply of demanding applications up to 10 A with the new SITOP modular power supplies. With the new 1-phase SITOP PSU8200 power supply units, you benefit from extremely small space requirements combined with highest functionality.

The new SITOP PSU8200 technology power supplies pay for themselves in many ways. Due to the extremely slim design, they require minimum space only on the standard mounting rail. With an installation depth of just 55 mm, the 10 A version is even the slimmest power supply unit in its performance class. This has been made possible by factors including the high degree of efficiency which also keeps the control cabinet cooler and the energy consumption low. Energy savings can also be made with the "Remote ON/ OFF" function which can be used to turn off the power supply unit remotely. If more power is required, however, as for switch-on surges, the "Extra Power" feature can provide 1.5 times the rated current for brief overloads.

In case you want to connect the power supply to 3-phase networks without a central conductor, the SITOP PSU200M with its unique ultra wide-range input is your best choice. The two universal power supplies have been innovated and the width of the 10 A version has been reduced by 20 mm. And the integrated signaling contact makes for easy linking into the system.

Increasing system availability

Optional expansion modules offer additional protection against a wide variety of risk sources, both on the primary and secondary sides of the power supply units. These modules support the completely flexible expansion of the SITOP modular 24 V DC power supplies up to complete all-round protection.

The benefits at a glance

NEW SITOP PSU8200




- 24 V DC/5 A and 10 A
- Wide-range input for connection to 1-phase 120/230 V AC networks with automatic switchover
- Slimmest design in its performance class
- Extremely high efficiency to 94%
- Extra power function for brief operational overloads
- Integrated signaling contact for "DC OK"
- Remote ON/OFF

SITOP PSU200M

- 24 V DC/5 A and 10 A
- Ultra wide-range input for connection to 1-phase 120/230 V AC networks or to two outer conductors of 3-phase 400/500 V AC networks
- High degree of efficiency up to 91%
- **NEW** 10 A power supply now only 70 mm wide
- **NEW** Integrated signaling contact for "DC OK"

SITOP modular product line generally

- For demanding applications from 5 – 40 A
- Compact, rugged metal housing
- No lateral installation clearances required
- Power boost for tripping protective devices
- Selectable short-circuit response
- Optional symmetrical load distribution for parallel operation
- Operating status on 3 LEDs
- Wide ambient temperature range
- Can be expanded with buffer, redundancy, selectivity and DC UPS modules for enhancing availability

			
Protection through ...	Redundancy modules for redundant configuration of the power supply unit	Selectivity modules for reliable monitoring of 24 V DC load circuits	Buffer module for 24 V DC bridging of fractional second power failures and DC UPS modules for 24 V DC buffering up to hours
Protection against ...	Failure of a power supply unit	Overload in the 24 V DC circuit	Power failure

Technical Data		NEW	NEW		
					
		SITOP modular, 1-phase		SITOP modular, 1-phase and 2-phase ¹⁾	
Output voltage/current, type	24 V DC/5 A, PSU8200	24 V DC/10 A, PSU8200	24 V DC/5 A, PSU200M	24 V DC/10 A, PSU200M	
Article No.	6EP3333-8SB00-0AY0	6EP3334-8SB00-0AY0	6EP1333-3BA10 ²⁾	6EP1334-3BA10 ²⁾	
Rated input voltage	120-230 V AC		120-230/230-500 V AC		
– Range	85 ... 132/170 ... 264 V AC, automatic range switchover		85 ... 264/176 ... 550 V AC, manual switchover		
Mains buffering	> 35 ms (at 120/230 V AC)	> 35 ms (at 120/230 V AC)	> 25 ms (at 120/230 V AC)	> 25 ms (at 120/230 V AC)	
Rated line frequency value	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	
Rated input current	2.1/1.2-10 A	4/1.9-10 A	2.2/1.2-0.61 A	4.4/2.4-1.1 A	
– Inrush current (25 °C)	< 10 A	< 10 A	< 35 A	< 35 A	
– Recommended miniature circuit breaker	6 A charact. C or 3RV1021-1xA10	10 A charact. C or 3RV1021-1xA11	6 A charact. C or 3RV2011-1xA10	10 A charact. C or 3RV2011-1xA10	
Rated output voltage	24 V DC	24 V DC	24 V DC	24 V DC	
– Tolerance	± 3%	± 3%	± 3%	± 3%	
– Adjustment range	24 ... 28.8 V DC	24 ... 28.8 V DC	24 ... 28.8 V DC	24 ... 28.8 V DC	
Rated output current	5 A	10 A	5 A	10 A	
– Overload behavior (power boost for 25 ms)	15 A	30 A	15 A	30 A	
– Overload behavior (extra power for 5 s/min)	7.5 A	15 A	—	—	
– Derating	—	from +60 °C (2%/K)	from +60 °C (2%/K)	from +60 °C (2%/K)	
Signaling via LEDs	"DC OK", "Overload" and "Shutdown"				
Signaling via a signaling contact	"DC OK"				
Switching on/off	via remote "ON/OFF" contact		—	—	
Efficiency at rated values, approx.	93%	94%	88%	91%	
Parallel switching	Yes, output characteristic can be set for parallel operation				
Electronic short-circuit protection	Yes, selectable constant current or latching shutdown Constant current: Approx. 1.15 x rated output current				
Radio interference suppression (EN 55022)	Class B	Class B	Class B	Class B	
Noise immunity (to 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	-25...+70 °C	-25...+70 °C	
Dimensions (W x H x D) in mm	45 x 125 x 125	55 x 125 x 125	70 x 125 x 121	70 x 125 x 121	
Weight, approx.	0.8 kg	1 kg	0.6 kg	0.8 kg	
Certification	CE, cULus, ATEX, IECEx, cCSAus Class I Div 2, SEMI F47 ³⁾ , GL, ABS				
1) Connection to 2 phases of a three-phase supply network					
2) Start of delivery July 2014; until then predecessor available: 6EP1333-3BA00 (24 V/5A), 6EP1334-3BA00 (24 V/10 A), variants with protective coating: 6EP1 333-3BA10-8AC0 (5 A), 6EP1334-3BA10-8AC0 (10 A)					
3) At input voltage 208-230 V AC					
Technical data applies for rated input voltage and +25°C ambient temperature (if not otherwise specified)					

Get more information

More about SITOP:
www.siemens.com/sitop

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

SITOP Selection Tool for the right power supply:
www.siemens.com/sitop-selection-tool

Operating instructions as download:
www.siemens.com/sitop/manuals

CAx data (2D, 3D, circuit diagram macros) as download:
www.siemens.com/sitop-cax

Electronic ordering via Internet with the Industry Mall:
www.siemens.com/industrymall

Find your personal contact partner at:
www.siemens.com/automation/partner

Security information

Siemens provides products and solutions with industrial security functions that support the secure operation of plants, solutions, machines, equipment and/or networks. They are important components in a holistic industrial security concept. With this in mind, Siemens' products and solutions undergo continuous development. Siemens recommends strongly that you regularly check for product updates.

For the secure operation of Siemens products and solutions, it is necessary to take suitable preventive action (e.g. cell protection concept) and integrate each component into a holistic, state-of-the-art industrial security concept. Third-party products that may be in use should also be considered. For more information about industrial security, visit:
<http://www.siemens.com/industrialsecurity>.

To stay informed about product updates as they occur, sign up for a product-specific newsletter. For more information, visit
<http://support.automation.siemens.com>.

Siemens AG
Industry Sector
Industrial Automation
Postfach 48 48
90026 NÜRNBERG
GERMANY

Subject to change without prior notice
Article No. 6ZB5341-0AV02-0AA0
DR.PN.SC.14.XXBR.95.62 / Dispo 10001
BR 0514 2. WÜ 4 En
Printed in Germany
© Siemens AG 2014

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. Availability and technical specifications are subject to change without notice.
All product designations may be trademarks or product names of Siemens AG or supplier companies whose use by third parties for their own purposes could violate the rights of the owners.