## 6EP3344-0SB00-0AY0

**Data sheet** 



SITOP PSU100E/1AC/48VDC/5A

SITOP PSU100E 48 V/5 A Stabilized power supply Input: 120 / 230 V AC Output: 48 V DC/5 A

input		
type of the power supply network	1-phase AC	
supply voltage	100 V/230 V	
input voltage 1 at AC	85 132 V	
input voltage 2 at AC	170 264 V	
wide range input	No	
buffering time for rated value of the output current in the event of power failure minimum	30 ms	
operating condition of the mains buffering	at Vin = 120/230 V	
line frequency	50/60 Hz	
line frequency	47 63 Hz	
input current		
• at rated input voltage 120 V	4.4 A	
• at rated input voltage 230 V	2 A	
current limitation of inrush current at 25 °C maximum	58 A	
I2t value maximum	1.5 A²·s	
fuse protection type	T 6.3 A (not accessible), soldered	
fuse protection type in the feeder	Recommended miniature circuit breaker: from 10 A characteristic C	
output		
voltage curve at output	Controlled, isolated DC voltage	
output voltage at DC rated value	48 V	
output voltage		
at output 1 at DC rated value	48 V	
output voltage adjustable	Yes; via potentiometer	
adjustable output voltage	48 54 V; max. 240 W	
relative overall tolerance of the voltage	3 %	
relative control precision of the output voltage		
on slow fluctuation of input voltage	0.2 %	
on slow fluctuation of ohm loading	0.5 %	
residual ripple		
• maximum	50 mV	
• typical	30 mV	
voltage peak		
• maximum	150 mV	
• typical	100 mV	
display version for normal operation	Green LED for 48 V OK	
type of signal at output	Relay contact (NO contact, rating 60 V DC/ 0.3 A) for 48 V OK	
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behavior of the output voltage when switching on	Overshoot of Vout approx. 2 %	
behavior of the output voltage when switching on response delay maximum	Overshoot of Vout approx. 2 %  1.5 s	

a tuning!	1E ma
• typical	15 ms
• maximum	500 ms
output current	
• rated value	5 A
rated range	0 5 A; +60 +70 °C: Derating 5%/K
supplied active power typical	240 W
bridging of equipment	Yes
number of parallel-switched equipment resources for increasing	2
the power	
efficiency	
efficiency in percent	92 %
power loss [W]  • at rated output voltage for rated value of the output	12 W
current typical	
closed-loop control	
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	0.3 %
relative control precision of the output voltage at load step of resistive load 10/90/10 % typical	1 %
setting time	
<ul> <li>load step 10 to 90% typical</li> </ul>	0.5 ms
<ul><li>load step 90 to 10% typical</li></ul>	0.5 ms
maximum	1 ms
protection and monitoring	
design of the overvoltage protection	< 60 V
property of the output short-circuit proof	Yes
design of short-circuit protection	Electronic shutdown, automatic restart
• typical	5.3 A
enduring short circuit current RMS value	
• typical	8.7 A
safety	
galvanic isolation between input and output	Yes
galvanic isolation	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
operating resource protection class	Class I
leakage current	
• maximum	3.5 mA
<ul><li>typical</li></ul>	1 mA
protection class IP	IP20
EMC	
standard	
for emitted interference	EN 61000-6-4
for mains harmonics limitation	EN 61000-3-2
for interference immunity	EN 61000-6-2
standards, specifications, approvals	
certificate of suitability	
CE marking	Yes
UL approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
CSA approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
EAC approval	Yes
NEC Class 2	
₹ 14EO Old35 Z	No
type of certification	No
type of certification  • CB-certificate	
CB-certificate	No
CB-certificate  MTBF at 40 °C	
CB-certificate  MTBF at 40 °C  standards, specifications, approvals hazardous environments	No
CB-certificate  MTBF at 40 °C  standards, specifications, approvals hazardous environments  certificate of suitability	No 1 050 000 h
CB-certificate  MTBF at 40 °C  standards, specifications, approvals hazardous environments  certificate of suitability  • IECEx	No 1 050 000 h No
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CB-certificate  MTBF at 40 °C  standards, specifications, approvals hazardous environments  certificate of suitability      IECEx      ATEX      ULhazloc approval	No 1 050 000 h No No No
CB-certificate  MTBF at 40 °C  standards, specifications, approvals hazardous environments  certificate of suitability      IECEx      ATEX      ULhazloc approval      cCSAus, Class 1, Division 2	No 1 050 000 h No No No No
CB-certificate  MTBF at 40 °C  standards, specifications, approvals hazardous environments  certificate of suitability      IECEx      ATEX      ULhazloc approval	No 1 050 000 h No No No

shiphuilding approval	No					
shipbuilding approval  Marine classification association	No					
	No					
American Bureau of Shipping Europe Ltd. (ABS)      Franch marine elegation against (RV)						
French marine classification society (BV)     Pat Naraka Varitas (DNV)	No					
Det Norske Veritas (DNV)      Lloyde Degister of Chipping (LDS)	No					
Lloyds Register of Shipping (LRS)	INO	No				
ambient conditions						
ambient temperature						
during operation		-25 +70 °C; with natural convection				
during transport		-40 +85 °C				
during storage		-40 +85 °C				
environmental category according to IEC 60721	Climate class 3K3, 5 95% no	Climate class 3K3, 5 95% no condensation				
connection method						
type of electrical connection	screw terminal					
• at input	L, N, PE: 1 screw terminal each	for 0.5 2.5 mm <sup>2</sup> single	-core/finely stranded			
• at output	+, -: 2 screw terminals each for	0.5 2.5 mm <sup>2</sup>				
for auxiliary contacts	13, 14 (alarm signal): 1 screw to	erminal each for 0.5 2.5	5 mm²			
mechanical data	<u> </u>					
width × height × depth of the enclosure	42 × 125 × 125 mm					
installation width × mounting height	42 mm × 225 mm					
required spacing						
• top	50 mm	50 mm				
• bottom	50 mm	50 mm				
• left	0 mm	0 mm				
• right	0 mm					
fastening method	Snaps onto DIN rail EN 60715	Snaps onto DIN rail EN 60715 35x7.5/15				
standard rail mounting	Yes	Yes				
S7 rail mounting	No					
wall mounting	No					
housing can be lined up	Yes	Yes				
net weight	0.5 kg	0.5 kg				
further information internet links						
internet link						
• to website: Industry Mall	https://mall.industry.siemens.co	om				
to website: Industrial communication		https://siemens.com/industrial-communication				
to website: CAx-Download-Manager	https://siemens.com/cax					
to website: Industry Online Support	https://support.industry.siemens	s com				
additional information	intpo.//oupport.iniduoti y.oiomoni	<u>2.00111</u>				
other information	Specifications at rated input vol	tage and ambient temper	ature +25 °C (unless			
other information	otherwise specified)	tage and ambient temper	ature 125 C (unitess			
security information						
security information	that support the secure operation order to protect plants, systent threats, it is necessary to imple state-of-the-art industrial cybers solutions constitute one element for preventing unauthorized acc networks. Such systems, mach to an enterprise network or the necessary and only when approximate the necessary and only only only only only on the necessary and only only only only only only only only	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)				
Classifications		Varaio	Classification			
		Version	Classification			
	eClass	14	27-04-07-01			
	eClass	12	27-04-07-01			

eClass	9.1	27-04-07-01
eClass	9	27-04-07-01
eClass	8	27-04-90-02
eClass	7.1	27-04-90-02
eClass	6	27-04-90-02
ETIM	9	EC002540
ETIM	8	EC002540
ETIM	7	EC002540
IDEA	4	4130
UNSPSC	15	39-12-10-04

Approvals Certificates

**General Product Approval** 

Manufacturer Declaration Declaration of Conformity





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