

SITOP PSA100E, 100 W

***** spare part ***** SITOP PSA100E regulated power supply 100 W input:
230 V AC output: 24 V DC/4 A

input	
type of the power supply network	1-phase AC
supply voltage at AC	
• initial value	187 V
• full-scale value	264 V
supply voltage	230 V
wide range input	No
overvoltage overload capability	-
buffering time for rated value of the output current in the event of power failure minimum	10 ms
line frequency	50/60 Hz
line frequency	47 ... 63 Hz
input current	
• at rated input voltage 230 V	1.1 A
current limitation of inrush current at 25 °C maximum	30 A
I _{2t} value maximum	0.8 A ² s
fuse protection type	internal
fuse protection type in the feeder	Recommended miniature circuit breaker: from 6 A characteristic C
output	
voltage curve at output	Controlled, isolated DC voltage
output voltage at DC rated value	24 V
output voltage	
• at output 1 at DC rated value	24 V
output voltage adjustable	Yes; via potentiometer
adjustable output voltage	23 ... 26 V
relative overall tolerance of the voltage	3 %
relative control precision of the output voltage	
• on slow fluctuation of input voltage	0.1 %
• on slow fluctuation of ohm loading	0.5 %
residual ripple	
• maximum	150 mV
voltage peak	
• maximum	250 mV
display version for normal operation	Green LED for 24 V OK
behavior of the output voltage when switching on	Overshoot of V _{out} < 1 %
response delay maximum	1.5 s
voltage increase time of the output voltage	
• maximum	200 ms
output current	
• rated value	4 A
• rated range	0 ... 4 A; 4 A up to +45 °C, 2 A up to +70 °C
supplied active power typical	96 W
bridging of equipment	Yes
number of parallel-switched equipment resources for increasing the power	2
efficiency	
efficiency in percent	87 %
power loss [W]	

• at rated output voltage for rated value of the output current typical	15 W
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 load step of resistive load 50/100/50 % typical	3 %
setting time	
• load step 50 to 100% typical	0.2 ms
• load step 100 to 50% typical	0.2 ms
protection and monitoring	
design of the overvoltage protection	< 35 V
property of the output short-circuit proof	Yes
design of short-circuit protection	Electronic shutdown, automatic restart
• typical	4.4 A
enduring short circuit current RMS value	
• maximum	3 A
safety	
galvanic isolation between input and output	Yes
galvanic isolation	Safety extra-low output voltage U _{out} acc. to EN 60950-1 and EN 50178
operating resource protection class	Class I
leakage current	
• maximum	3.5 mA
• typical	0.4 mA
protection class IP	IP20
EMC	
standard	
• for emitted interference	EN 55022 Class B
• for mains harmonics limitation	-
• 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
• EAC approval	Yes
• NEC Class 2	No
type of certification	
• CB-certificate	Yes
MTBF at 40 °C	1 773 836 h
standards, specifications, approvals hazardous environments	
certificate of suitability	
• IECEx	No
• ATEX	No
• ULhazloc approval	No
• FM registration	No
standards, specifications, approvals marine classification	
shipbuilding approval	No
Marine classification association	
• American Bureau of Shipping Europe Ltd. (ABS)	No
• French marine classification society (BV)	No
• Det Norske Veritas (DNV)	No
• Lloyds Register of Shipping (LRS)	No
ambient conditions	
ambient temperature	
• during operation	-10 ... +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 condensation
connection method	

type of electrical connection	screw terminal
• at input	L, N, PE: Removable screw terminal, each for 1 x 0.5 ... 2.5 mm²
• at output	+, -: Removable screw terminal each for 1 x 0.5 ... 2.5 mm²
• for auxiliary contacts	-
mechanical data	
width × height × depth of the enclosure	52 × 170 × 110 mm
installation width × mounting height	52 mm × 230 mm
fastening method	Snap onto DIN rail EN 60715 35x7.5/15, wall mounting
• DIN-rail mounting	Yes
• S7 rail mounting	No
• wall mounting	Yes
housing can be lined up	Yes
net weight	0.8 kg
further information internet links	
internet link	
• to website: Industry Online Support	https://support.industry.siemens.com
additional information	
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)
security information	
security information	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			
		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	10	EC002540
	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](#)



[China RoHS](#)



[Miscellaneous](#)

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