## **SIEMENS**

Data sheet 6EP1323-2BA00



SITOP PSU100S/1AC/12VDC/14A

SITOP PSU100S 12 V/14 A stabilized power supply input: 120/230 V AC output: 12 V DC/14 A

input		
type of the power supply network	1-phase AC	
supply voltage at AC	Automatic range selection	
supply voltage	120 V/230 V	
input voltage 1 at AC	85 132 V	
input voltage 2 at AC	170 264 V	
wide range input	No	
overvoltage overload capability	2.3 × Vin rated, 1.3 ms	
buffering time for rated value of the output current in the event of power failure minimum	20 ms	
operating condition of the mains buffering	at Vin = 93/187 V	
line frequency	50/60 Hz	
line frequency	47 63 Hz	
input current		
• at rated input voltage 120 V	3.24 A	
at rated input voltage 230 V	1.41 A	
current limitation of inrush current at 25 °C maximum	60 A	
fuse protection type	T 6.3 A/250 V (not accessible)	
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	12 V	
output voltage		
at output 1 at DC rated value	12 V	
output voltage adjustable	Yes; via potentiometer	
adjustable output voltage	11.5 15.5 V	
relative overall tolerance of the voltage	3 %	
relative control precision of the output voltage		
<ul> <li>on slow fluctuation of input voltage</li> </ul>	0.1 %	
<ul> <li>on slow fluctuation of ohm loading</li> </ul>	1 %	
residual ripple		
• maximum	150 mV	
• typical	20 mV	
voltage peak		
• maximum	240 mV	
• typical	100 mV	
display version for normal operation	Green LED for 12 V OK	
type of signal at output	Relay contact (NO contact, rating 60 V DC/ 0.3 A) for 12 V OK	
behavior of the output voltage when switching on	Overshoot of Vout < 3 %	
response delay maximum	0.3 s	

vallege insurance time of the authority cells		
voltage increase time of the output voltage	10 mg	
• typical	10 ms	
output current		
• rated value	14 A	
rated range	0 14 A; +50 +70 °C: Derating 3.5%/K	
supplied active power typical	168 W	
short-term overload current		
<ul> <li>on short-circuiting during the start-up typical</li> </ul>	40 A	
at short-circuit during operation typical	40 A	
duration of overloading capability for excess current		
<ul> <li>on short-circuiting during the start-up</li> </ul>	800 ms	
at short-circuit during operation	800 ms	
bridging of equipment	Yes	
number of parallel-switched equipment resources for increasing the power	2	
efficiency		
efficiency in percent	87 %	
power loss [W]		
<ul> <li>at rated output voltage for rated value of the output current typical</li> </ul>	24 W	
closed-loop control		
relative control precision of the output voltage at load step of resistive load 10/90/10 % typical	5 %	
setting time		
<ul><li>load step 10 to 90% typical</li></ul>	1 ms	
<ul> <li>load step 90 to 10% typical</li> </ul>	1 ms	
protection and monitoring		
design of the overvoltage protection	< 20 V	
property of the output short-circuit proof	Yes	
design of short-circuit protection	Constant current characteristic	
response value current limitation	14 16.4 A	
overcurrent overload capability		
• in normal operation	overload capability 150 % lout rated up to 5 s/min	
enduring short circuit current RMS value		
• typical	16.4 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	
• typical	0.8 mA	
protection class IP	IP20	
EMC		
standard		
for emitted interference	EN 55022 Class B	
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; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)	
CSA approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus	
UKCA marking	Yes	
-		
• •		
2.	Yes	
CSA approval      UKCA marking     EAC approval     NEC Class 2  type of certification     CB-certificate  MTBF at 40 °C	(CSA C22.2 No. 60950-1, UL 60950-1)	

standards, specifications, approvals hazardous environments		
certificate of suitability		
• IECEx	No	
• ATEX	No	
<ul> <li>ULhazloc approval</li> </ul>	No	
<ul> <li>cCSAus, Class 1, Division 2</li> </ul>	No	
FM registration	No	
standards, specifications, approvals marine classification		
shipbuilding approval	Yes	
Marine classification association		
<ul> <li>American Bureau of Shipping Europe Ltd. (ABS)</li> </ul>	No	
<ul> <li>French marine classification society (BV)</li> </ul>	No	
<ul> <li>Det Norske Veritas (DNV)</li> </ul>	Yes	
<ul> <li>Lloyds Register of Shipping (LRS)</li> </ul>	No	
standards, specifications, approvals Environmental Product Dec	claration	
Environmental Product Declaration	Yes	
global warming potential [CO2 eq]		
• total	769.3 kg	
during manufacturing	18.1 kg	
during operation	750.6 kg	
after end of life	0.49 kg	
ambient conditions		
ambient temperature		
during operation	-25 +70; with natural convection	
during transport	-40 +85	
during storage	-40 +85	
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: 1 screw terminal each for 0.5 2.5 mm² single-core/finely stranded	
• at output	+, -: 2 screw terminals each for 0.5 2.5 mm <sup>2</sup>	
for auxiliary contacts	Alarm signals: 2 screw terminals for 0.5 2.5 mm <sup>2</sup>	
for signaling contact	2 screw terminals for 0.5 2.5 mm <sup>2</sup>	
mechanical data		
width × height × depth of the enclosure	70 × 125 × 120 mm	
installation width × mounting height	70 mm × 225 mm	
installation width × mounting height required spacing	70 mm × 225 mm	
installation width × mounting height required spacing • top	70 mm × 225 mm 50 mm	
installation width × mounting height required spacing  • top • bottom	70 mm × 225 mm 50 mm 50 mm	
installation width × mounting height required spacing	70 mm × 225 mm  50 mm  50 mm  0 mm	
installation width × mounting height required spacing	70 mm × 225 mm  50 mm  0 mm  0 mm	
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installation width × mounting height  required spacing  • top  • bottom  • left  • right  fastening method  • standard rail mounting  • S7 rail mounting  • wall mounting  housing can be lined up  net weight  further information internet links	70 mm × 225 mm  50 mm 50 mm 0 mm 0 mm Snaps onto DIN rail EN 60715 35x7.5/15 Yes No No Yes	
installation width × mounting height required spacing  • top • bottom • left • right fastening method • standard rail mounting • S7 rail mounting • wall mounting housing can be lined up net weight further information internet links internet link	70 mm × 225 mm  50 mm 50 mm 0 mm 0 mm Snaps onto DIN rail EN 60715 35x7.5/15 Yes No No Yes 0.7 kg	
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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	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





General Product Approval

Marine / Shipping

Environment

Miscellaneous





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11/25/2024