## **SIEMENS**

Data sheet 6EP1322-2BA00



SITOP PSU100S/1AC/12VDC/7A

SITOP PSU100S 12 V/7 A stabilized power supply input: 120/230 V AC output: 12 V DC/7 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		
<ul> <li>at rated input voltage 120 V</li> </ul>	1.73 A	
• at rated input voltage 230 V	0.99 A	
current limitation of inrush current at 25 °C maximum	45 A	
fuse protection type	T 3,15 A/250 V (not accessible)	
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	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	

voltage increase time of the output voltage	10 mg	
• typical	10 ms	
output current	7.0	
• rated value	7 A	
rated range	0 7 A; +50 +70 °C: Derating 0.75%/K	
supplied active power typical	84 W	
short-term overload current		
<ul> <li>on short-circuiting during the start-up typical</li> </ul>	25 A	
at short-circuit during operation typical	25 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	84 %	
power loss [W]		
<ul> <li>at rated output voltage for rated value of the output current typical</li> </ul>	15 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	
● load step 90 to 10% typical	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	7 8.8 A	
overcurrent overload capability		
in normal operation	overload capability 150 % lout rated up to 5 s/min	
enduring short circuit current RMS value		
• typical	8.8 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	0.4 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 (CSA C22.2 No. 60950-1, UL 60950-1)	
UKCA marking	Yes	
EAC approval	Yes	
NEC Class 2	No	
type of certification		
CB-certificate	Yes	
MTBF at 40 °C	1 998 441 h	

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
<ul> <li>FM registration</li> </ul>	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 De	claration
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
• total	482.5 kg
during manufacturing	12.9 kg
during operation	469.1 kg
after end of life	0.35 kg
ambient conditions	
ambient temperature	
during operation	-25 +70; with natural convection
	-40 +85
during transport     during storage	-40 +85
during storage      pulsepmental entergary according to IEC 60731	
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	50 × 125 × 120 mm
width × height × depth of the enclosure installation width × mounting height	50 × 125 × 120 mm 50 mm × 225 mm
width × height × depth of the enclosure	
width × height × depth of the enclosure installation width × mounting height	
width × height × depth of the enclosure installation width × mounting height required spacing	50 mm × 225 mm
width × height × depth of the enclosure installation width × mounting height required spacing • top	50 mm × 225 mm
width × height × depth of the enclosure installation width × mounting height required spacing	50 mm × 225 mm 50 mm 50 mm
width × height × depth of the enclosure installation width × mounting height required spacing	50 mm × 225 mm  50 mm  50 mm  0 mm
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width × height × depth of the enclosure installation width × mounting height required spacing	50 mm × 225 mm  50 mm 50 mm 0 mm 0 mm Snaps onto DIN rail EN 60715 35x7.5/15
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width × height × depth of the enclosure installation width × mounting height required spacing  • top • bottom • left • right fastening method • standard rail mounting • \$7 rail mounting • wall mounting housing can be lined up net weight	50 mm × 225 mm  50 mm 50 mm 0 mm 0 mm Snaps onto DIN rail EN 60715 35x7.5/15 Yes No No Yes
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width × height × depth of the enclosure 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 • to website: Industry Mall • to web page: selection aid TIA Selection Tool • to web page: power supplies • to website: CAx-Download-Manager • to website: Industry Online Support  additional information other information security information	50 mm × 225 mm  50 mm 50 mm 0 mm 0 mm Snaps onto DIN rail EN 60715 35x7.5/15 Yes No No Yes 0.5 kg  https://mall.industry.siemens.com https://www.siemens.com/tstcloud https://siemens.com/sitop https://siemens.com/cax https://siemens.com/cax https://siemens.com/cax https://siemens.com/cax https://support.industry.siemens.com  Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

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
14	27-04-07-01
12	27-04-07-01
9.1	27-04-07-01
9	27-04-07-01
8	27-04-90-02
7.1	27-04-90-02
6	27-04-90-02
9	EC002540
8	EC002540
7	EC002540
4	4130
15	39-12-10-04
	14 12 9.1 9 8 7.1 6 9 8 7

## Approvals Certificates

**General Product Approval** 





Manufacturer Declaration Declaration of Conformity





**General Product Approval** 

Marine / Shipping

Environment



<u>Miscellaneous</u>





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11/25/2024