

SITOP PSU100D/1AC/12VDC/8.3A

***** spare part ***** PSU100D 12 V/8.3 A stabilized power supply input:
100-240 V AC output: 12 V DC/8.3 A



input	
type of the power supply network	1-phase AC
supply voltage at AC	
<ul style="list-style-type: none"> • minimum rated value • maximum rated value • initial value • full-scale value 	100 V 240 V 85 V 264 V
wide range input	Yes
buffering time for rated value of the output current in the event of power failure minimum	15 ms
operating condition of the mains buffering	at $V_{in} = 115/230$ V
line frequency	50/60 Hz
line frequency	47 ... 63 Hz
input current	
<ul style="list-style-type: none"> • at rated input voltage 100 V • at rated input voltage 240 V 	2 A 1.1 A
current limitation of inrush current at 25 °C maximum	75 A
I ² t value maximum	5.5 A ² ·s
fuse protection type	internal
fuse protection type in the feeder	Recommended miniature circuit breaker: from 10 A characteristic C or from 16 A characteristic B
output	
voltage curve at output	Controlled, isolated DC voltage
output voltage at DC rated value	12 V
output voltage	
<ul style="list-style-type: none"> • at output 1 at DC rated value 	12 V
output voltage adjustable	Yes; via potentiometer
adjustable output voltage	11 ... 14 V
relative overall tolerance of the voltage	2 %
relative control precision of the output voltage	
<ul style="list-style-type: none"> • on slow fluctuation of input voltage • on slow fluctuation of ohm loading 	0.5 % 1 %
residual ripple	
<ul style="list-style-type: none"> • maximum 	100 mV
voltage peak	
<ul style="list-style-type: none"> • maximum 	100 mV
display version for normal operation	Green LED for 12 V OK
behavior of the output voltage when switching on	Overshoot of $V_{out} < 2$ %
response delay maximum	1 s
voltage increase time of the output voltage	

<ul style="list-style-type: none"> • maximum 	30 ms
output current	
<ul style="list-style-type: none"> • rated value • rated range 	8.3 A 0 ... 8.3 A; +50 ... +70 °C: Derating 2.5%/K
supplied active power typical	100 W
bridging of equipment	Yes
number of parallel-switched equipment resources for increasing the power	2
efficiency	
efficiency in percent	84 %
power loss [W]	
<ul style="list-style-type: none"> • at rated output voltage for rated value of the output current typical 	19 W
closed-loop control	
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	0.5 %
relative control precision of the output voltage load step of resistive load 50/100/50 % typical	5 %
protection and monitoring	
design of the overvoltage protection	< 17.6 V
property of the output short-circuit proof	Yes
design of short-circuit protection	Electronic shutdown, automatic restart
<ul style="list-style-type: none"> • typical 	9.9 A
enduring short circuit current RMS value	
<ul style="list-style-type: none"> • typical 	10 A
safety	
galvanic isolation between input and output	Yes
galvanic isolation	Safety extra low output voltage Vout according to EN 60950-1
operating resource protection class	Class I
leakage current	
<ul style="list-style-type: none"> • maximum • typical 	3.5 mA 1 mA
protection class IP	IP20
EMC	
standard	
<ul style="list-style-type: none"> • for emitted interference • for mains harmonics limitation • for interference immunity 	EN 55022 Class B EN 61000-3-2 EN 61000-6-2
standards, specifications, approvals	
certificate of suitability	
<ul style="list-style-type: none"> • CE marking • UL approval • EAC approval • NEC Class 2 	Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus (UL 60950-1, CSA C22.2 No. 60950-1), File E151273 Yes No
type of certification	
<ul style="list-style-type: none"> • CB-certificate 	Yes
standards, specifications, approvals hazardous environments	
certificate of suitability	
<ul style="list-style-type: none"> • IECEx • ATEX • ULhazloc approval • FM registration 	No No No No
standards, specifications, approvals marine classification	
shipbuilding approval	No
Marine classification association	
<ul style="list-style-type: none"> • American Bureau of Shipping Europe Ltd. (ABS) • French marine classification society (BV) • Det Norske Veritas (DNV) • Lloyds Register of Shipping (LRS) 	No No No No

standards, specifications, approvals Environmental Product Declaration

Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
<ul style="list-style-type: none"> • total • during manufacturing • during operation • after end of life 	<p>605.8 kg</p> <p>11.3 kg</p> <p>594.2 kg</p> <p>0.17 kg</p>

ambient conditions

ambient temperature	
<ul style="list-style-type: none"> • during operation • during transport • during storage 	<p>-10 ... +70 °C; with natural convection</p> <p>-40 ... +85 °C</p> <p>-40 ... +85 °C</p>

connection method

type of electrical connection	screw terminal
<ul style="list-style-type: none"> • at input • at output • for auxiliary contacts 	<p>L, N, PE: 1 screw terminal each for 0.3 ... 1.3 mm² single-core/finely stranded</p> <p>+, -: 2 screw terminals each for 0.3 ... 1.3 mm²</p> <p>-</p>

mechanical data

width × height × depth of the enclosure	97 × 158 × 38 mm
required spacing	
<ul style="list-style-type: none"> • top • bottom • left • right 	<p>20 mm</p> <p>0 mm</p> <p>20 mm</p> <p>20 mm</p>
fastening method	Wall mounting
<ul style="list-style-type: none"> • DIN-rail mounting • S7 rail mounting • wall mounting 	<p>No</p> <p>No</p> <p>Yes</p>
net weight	0.57 kg

further information internet links

internet link	
<ul style="list-style-type: none"> • to website: Industry Mall • to web page: selection aid TIA Selection Tool • to website: CAx-Download-Manager • to website: Industry Online Support 	<p>https://mall.industry.siemens.com</p> <p>https://www.siemens.com/tstcloud</p> <p>https://siemens.com/cax</p> <p>https://support.industry.siemens.com</p>

additional information

other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)
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security information

security information	<p>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)</p>
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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

Environmental Product Declaration

• global warming potential [CO2 eq] / during manufacturing	11.3 kg
• global warming potential [CO2 eq] / during operation	594.2 kg
• global warming potential [CO2 eq] / after end of life	0.17 kg
• global warming potential [CO2 eq] / total	605.8 kg

Environment

General Product Approval



[Manufacturer Declaration](#)

[Declaration of Conformity](#)



[China RoHS](#)



General Product Approval



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