SIEMENS

Data sheet 6EP1333-1LB00



SITOP PSU100L/1AC/24VDC/5A

SITOP PSU100L 24 V/5 A Stabilized power supply input: 120/230 V AC, output: 24 V DC/5 A

input		
type of the power supply network	1-phase AC	
supply voltage at AC	Set by means of selector switch on the device	
supply voltage	120 V/230 V	
input voltage 1 at AC	93 132 V	
input voltage 2 at AC	187 264 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 	2.1 A	
 at rated input voltage 230 V 	1.15 A	
current limitation of inrush current at 25 °C maximum	32 A	
duration of inrush current limiting at 25 °C		
• typical	3 ms	
I2t value maximum	0.8 A ² ·s	
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	24 V	
output voltage		
at output 1 at DC rated value	24 V	
output voltage adjustable	Yes; via potentiometer	
adjustable output voltage	22.8 26.4 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	
• typical	50 mV	
voltage peak		
• maximum	240 mV	
• typical	150 mV	
display version for normal operation	Green LED for 24 V OK	

hehavior of the output voltage when switching on	Overshoot of Vout approx 4 %	
behavior of the output voltage when switching on	Overshoot of Vout approx. 4 % 1.5 s	
response delay maximum	1.5 \$	
voltage increase time of the output voltage	120 mg	
typical output current	130 ms	
•	5 A	
• rated value		
• rated range	0 5 A; +45 +60 °C: Derating 2%/K	
supplied active power typical	120 W	
bridging of equipment	Yes	
number of parallel-switched equipment resources for increasing the power	2	
efficiency		
efficiency in percent	86 %	
power loss [W]	00 N	
at rated output voltage for rated value of the output current typical	17 W	
closed-loop control		
relative control precision of the output voltage with rapid	0.3 %	
fluctuation of the input voltage by +/- 15% typical relative control precision of the output voltage at load step of	2 %	
resistive load 10/90/10 % typical	- ~	
setting time	0.4 me	
load step 10 to 90% typical load step 90 to 10% typical	0.4 ms	
load step 90 to 10% typical protection and monitoring	0.4 ms	
protection and monitoring	- 22 V	
design of the overvoltage protection	< 33 V	
property of the output short-circuit proof	Yes	
design of short-circuit protection	Constant current characteristic	
• typical	5.25 A	
enduring short circuit current RMS value	8 A	
	0 A	
• typical		
safety		
galvanic isolation between input and output	Yes	
galvanic isolation between input and output galvanic isolation	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178	
galvanic isolation between input and output galvanic isolation operating resource protection class	Yes	
galvanic isolation between input and output galvanic isolation operating resource protection class leakage current	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I	
galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA	
galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.4 mA	
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galvanic isolation between input and output galvanic isolation operating resource protection class leakage current	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.4 mA IP20 EN 55022 Class A - EN 61000-6-2 Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259	
galvanic isolation between input and output galvanic isolation operating resource protection class leakage current	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.4 mA IP20 EN 55022 Class A - EN 61000-6-2	
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safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical protection class IP EMC standard • for emitted interference • for mains harmonics limitation • for interference immunity standards, specifications, approvals certificate of suitability • CE marking • UL approval • CSA approval • UKCA marking • EAC approval • NEC Class 2 type of certification • BIS • CB-certificate	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.4 mA IP20 EN 55022 Class A - EN 61000-6-2 Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 Yes Yes Yes Yes Yes No Yes; R-41183539 Yes	
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• cCSAus, Class 1, Division 2	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			
standards, specifications, approvals Environmental Product Declaration				
Environmental Product Declaration	Yes			
Global Warming Potential [CO2 eq]	5151			
• total	545 kg			
during manufacturing	12.9 kg			
during operation after and of life.	531.6 kg			
after end of life ambient conditions	0.35 kg			
ambient temperature	0 60: with natural convection			
during operation	0 60; with natural convection			
during transport	-40 +85			
during storage Applicance to leave and according to UEC 60724	-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 ²			
for auxiliary contacts	•			
mechanical data	TO 107 100			
width × height × depth of the enclosure	50 × 125 × 120 mm			
installation width × mounting height	50 mm × 225 mm			
required spacing				
• top	50 mm			
• bottom	50 mm			
• left	0 mm			
• right	0 mm			
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15			
standard rail mounting S7 rail mounting	Yes			
S7 rail mounting	No No			
wall mounting	No			
housing can be lined up	Yes			
net weight	0.5 kg			
further information internet links				
internet link	https://well.industry.giomone.com			
to website: Industry Mall to web page: calculation and TIA Solection Tool	https://mail.industry.siemens.com			
to web page: selection aid TIA Selection Tool to website: CAy Developed Manager	https://www.siemens.com/tstcloud			
to website: CAx-Download-Manager to website: Industry Online Support	https://siemens.com/cax			
to website: Industry Online Support additional information.	https://support.industry.siemens.com			
additional information	Considerations of retail insulty:			
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	9	EC002540
ETIM	8	EC002540
ETIM	7	EC002540
IDEA	4	4130
UNSPSC	15	39-12-10-04

Approvals Certificates

General Product Approval

CB

Manufacturer Declaration Declaration of Conformity







General Product Approval

Environment

BIS CRS



last modified:

11/19/2024

