SIEMENS

Data sheet 6EP1333-1LB00



SITOP PSU100L/1AC/24VDC/5A

Siemens EcoTech

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	
12t value maximum	0.8 A²·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		

- maying una	240>/	
• maximum	240 mV	
• typical	150 mV	
display version for normal operation	Green LED for 24 V OK	
behavior of the output voltage when switching on	Overshoot of Vout approx. 4 %	
response delay maximum	1.5 s	
voltage increase time of the output voltage		
• typical	130 ms	
output current		
rated value	5 A	
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	2	
the power		
efficiency		
efficiency in percent	86 %	
power loss [W]		
 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 resistive load 10/90/10 % typical	2 %	
setting time		
load step 10 to 90% typical	0.4 ms	
load step 90 to 10% typical	0.4 ms	
protection and monitoring		
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		
• typical	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	11 20	
standard		
for emitted interference	EN 55022 Class A	
	LIN JUUZZ GIASS A	
for mains harmonics limitation for interference immunity	- FN 64000 6-2	
for interference immunity conducte appropriate appropriat	EN 61000-6-2	
standards, specifications, approvals		
certificate of suitability	V	
CE marking	Yes	
• UL approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259	
CSA approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259	
UKCA marking	Yes	
EAC approval	Yes	
NEC Class 2	No	
type of certification		
• BIS	Yes; R-41183539	
CB-certificate	Yes	
MTBF at 40 °C	3 076 166 h	
standards, specifications, approvals hazardous environments		
certificate of suitability		

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F 05% no condensation
, 5 95% no condensation
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terminal each for 0.5 2.5 mm² single-core/finely stranded
nals each for 0.5 2.5 mm ²
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II
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III EIT OUT TO OUNT OF TO
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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

Environment

Miscellaneous

BIS CRS



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4/4/2025

