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 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	
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	17 W	
current typical closed-loop control		
	0.2.0/	
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	0.3 %	
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 between input and output galvanic isolation	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178	
·		
galvanic isolation	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178	
galvanic isolation operating resource protection class	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178	
galvanic isolation operating resource protection class leakage current	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I	
galvanic isolation operating resource protection class leakage current • maximum	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA	
galvanic isolation operating resource protection class leakage current • maximum • typical	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 operating resource protection class leakage current • maximum • typical protection class IP standard • for emitted interference • for mains harmonics limitation • for interference immunity standards, specifications, approvals certificate of suitability • CE marking	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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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 De	claration			
Environmental Product Declaration	Yes			
Global Warming Potential [CO2 eq]				
• total	545 kg			
 during manufacturing 	12.9 kg			
during operation	531.6 kg			
after end of life	0.35 kg			
ambient conditions				
ambient temperature				
during operation	0 60 °C; with natural convection			
during transport	-40 +85 °C			
during storage	-40 +85 °C			
environmental category according to IEC 60721	Climate class 3K3, 5 95% no condensation			
connection method	S Glado of to 10 to 10 dolladion			
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				
width × height × depth of the enclosure	50 × 120			
installation width × mounting height	50 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 	Yes			
 S7 rail mounting 	No			
wall mounting	No			
housing can be lined up	Yes			
net weight	0.5 kg			
further information internet links				
internet link				
• to website: Industry Mall	https://mall.industry.siemens.com			
to web page: selection aid TIA Selection Tool	https://siemens.com/tst			
to web page: selection and Thy defection Tool to website: Industrial communication	http://www.siemens.com/simatic-net			
to website: Madstrar communication to website: CAx-Download-Manager	http://www.siemens.com/cax			
to website: Online Support to website: Industry Online Support	https://support.industry.siemens.com			
additional information	https://support.industry.sicmens.com			
other information	Specifications at rated input valtage and ambient terrographics 105 °C (valtage			
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			
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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 CB

Manufacturer Declaration

Declaration of Conformity





BIS CRS

Environment



last modified:

5/18/2024

