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

type of the power supply network 1-phase AC supply voltage at AC Set by means of selector switch on the device supply voltage 20 V • 1 at AC rated value 20 V • 2 at AC rated value 20 V input voltage 30	Input	
• initial value Set by means of selector switch on the device supply voltage 120 V • 1 at AC rated value 230 V input voltage 230 V • 1 at AC 93 132 V • 2 at AC 187 264 V design of input wide range input No overvoltage overload capability 2 at Vin rated, 1.3 ms operating condition of the mains buffering at Vin = 93/187 V puffering 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 puffering 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 Hz • 1 rated value 50 Hz input current 50 Hz input voltage 220 V 2.1 A • at rated input voltage 230 V 1.15 A current limitation of innush current at 25 °C 3 ms its protection type 3 ms its protection type 13 1.5 A/250 V (not accessible) • in the	type of the power supply network	1-phase AC
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relative overall tolerance of the voltage 3 % relative control precision of the output voltage 0.1 % • on slow fluctuation of input voltage 0.1 % • on slow fluctuation of ohm loading 0.5 % residual ripple	output voltage	
relative control precision of the output voltage 0.1 % • on slow fluctuation of input voltage 0.5 % residual ripple 7	• at output 1 at DC rated value	24 V
on slow fluctuation of input voltage on slow fluctuation of ohm loading onslow fluctuation of ohm loading	relative overall tolerance of the voltage	3 %
on slow fluctuation of ohm loading 0.5 % residual ripple	relative control precision of the output voltage	
residual ripple	 on slow fluctuation of input voltage 	0.1 %
	 on slow fluctuation of ohm loading 	0.5 %
• maximum 150 mV	residual ripple	
	• maximum	150 mV

- tomical	50 m)/
• typical	50 mV
voltage peak	
• maximum	240 mV
• typical	150 mV
adjustable output voltage	22.8 26.4 V
product function output voltage adjustable	Yes
type of output voltage setting	via potentiometer
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
product feature	
 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 ourroat turical 	17 W
current typical	
Closed-loop control	
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	2 %
resistive load 10/90/10 % typical	2 /0
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
typical	5.25 A
property of the output short-circuit proof	Yes
design of short-circuit protection	Constant current characteristic
enduring short circuit current RMS value	
-	8 A
typical display version for overload and short circuit	
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
Approvals	
certificate of suitability	
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
NEC Class 2	No
EAC approval	Yes
type of certification	
• BIS	Yes; R-41183539
CB-certificate	Yes
certificate of suitability	
• IECEx	No
• ATEX	No

 ULhazloc approval 	No
 cCSAus, Class 1, Division 2 	No
FM registration	No
certificate of suitability shipbuilding approval	No
Marine classification association	
 American Bureau of Shipping Europe Ltd. (ABS) 	No
 French marine classification society (BV) 	No
 Lloyds Register of Shipping (LRS) 	No
EMC	
standard	
 for emitted interference 	EN 55022 Class A
 for mains harmonics limitation 	
 for interference immunity 	EN 61000-6-2
environmental 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
Mechanics	
type of electrical connection	screw-type terminals
• 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 	-
width of the enclosure	50 mm
height of the enclosure	125 mm
depth of the enclosure	120 mm
required spacing	
• top	50 mm
• bottom	50 mm
● left	0 mm
● right	0 mm
net weight	0.5 kg
product feature of the enclosure housing can be lined up	Yes
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15
MTBF at 40 °C	3 076 166 h
other information	Specifications at rated input voltage and ambient temperature +25 $^\circ \text{C}$ (unless otherwise specified)

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