SIEMENS

Data sheet 6EP1334-1LB00



SITOP PSU100L/1AC/24VDC/10A

SITOP PSU100L 24 V/10 A Stabilized power supply input: 120/230 V AC, output: DC 24 V/10 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 	4.1 A		
 at rated input voltage 230 V 	2 A		
current limitation of inrush current at 25 °C maximum	65 A		
duration of inrush current limiting at 25 °C			
• typical	3 ms		
I2t value maximum	3.3 A²·s		
fuse protection type	T 6.3 A/250 V (not accessible)		
fuse protection type in the feeder	Recommended miniature circuit breaker: from 10 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. 4.9/	
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	170 ms	
output current		
rated value	10 A	
rated range	0 10 A; +45 +60 °C: Derating 2%/K	
supplied active power typical	240 W	
bridging of equipment	Yes	
number of parallel-switched equipment resources for increasing	2	
the power		
efficiency		
efficiency in percent	89 %	
power loss [W]		
 at rated output voltage for rated value of the output current typical 	34 W	
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 resistive load 10/90/10 % typical	2 %	
setting time		
● load step 10 to 90% typical	0.5 ms	
● load step 90 to 10% typical	0.7 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	16 A	
enduring short circuit current RMS value		
• typical	12.6 A	
safety	Vac	
safety galvanic isolation between input and output	Yes Safety extra-low output voltage Llout acc. to EN 60950-1 and EN 50178	
galvanic isolation between input and output galvanic isolation	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		
galvanic isolation between input and output 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 between input and output 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 between input and output 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 0.8 mA	
galvanic isolation between input and output galvanic isolation operating resource protection class leakage current	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	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.8 mA IP20	
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galvanic isolation between input and output galvanic isolation operating resource protection class leakage current	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.8 mA IP20 EN 55022 Class A	
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galvanic isolation between input and output galvanic isolation operating resource protection class leakage current	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.8 mA IP20 EN 55022 Class A - EN 61000-6-2	
galvanic isolation between input and output galvanic isolation operating resource protection class leakage current	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.8 mA IP20 EN 55022 Class A - EN 61000-6-2	
galvanic isolation between input and output galvanic isolation operating resource protection class leakage current	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.8 mA IP20 EN 55022 Class A - EN 61000-6-2 Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259	
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No	
No	
No	
No	
No	
claration	
Yes	
1 083.3 kg	
19.4 kg	
1 063.3 kg	
0.53 kg	
0 60 °C; with natural convection	
-40 +85 °C	
-40 +85 °C	
Climate class 3K3, 5 95% no condensation	
screw terminal	
L, N, PE: 1 screw terminal each for 0.5 2.5 mm² single-core/finely stranded	
+, -: 2 screw terminals each for 0.5 2.5 mm²	
70 × 125 × 120 mm	
70 mm × 225 mm	
50 mm	
50 mm	
0 mm	
0 mm	
Snaps onto DIN rail EN 60715 35x7.5/15	
Yes	
No	
No	
Yes	
0.75 kg	
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Specifications at rated input voltage and ambient temperature +25 °C (unless	
otherwise specified)	
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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	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:

6/26/2024

