SIEMENS

Data sheet 6EP1336-1LB00



SITOP PSU100L/1AC/24VDC/20A

SITOP PSU100L 24 V/20 A Stabilized power supply input: 100-240 V AC output: 24 V DC/20 A

Input	
Input	1-phase AC or DC
Rated voltage value Vin rated	100 240 V
supply voltage	
• at DC	100 240 V
input voltage	
• 1 at AC	85 264 V
• at DC	88 370 V
Wide-range input	Yes
Mains buffering	at Vin = 93/187 V
Mains buffering at lout rated, min.	20 ms; at Vin = 93/187 V
Rated line frequency 1	50 Hz
Rated line frequency 2	60 Hz
Rated line range	47 63 Hz
input current	
 at rated input voltage 120 V 	5.55 A
 at rated input voltage 230 V 	2.35 A
Switch-on current limiting (+25 °C), max.	45 A
duration of inrush current limiting at 25 °C	
typical	15 ms
I²t, max.	3.3 A ² ·s
Built-in incoming fuse	T 10 A/250 V (not accessible)
Protection in the mains power input (IEC 898)	Recommended miniature circuit breaker: from 10 A characteristic C
Output	
Output	Controlled, isolated DC voltage
Rated voltage Vout DC	24 V
Total tolerance, static ±	3 %
Static mains compensation, approx.	0.1 %
Static load balancing, approx.	1 %
Residual ripple peak-peak, max.	150 mV
Residual ripple peak-peak, typ.	50 mV
Spikes peak-peak, max. (bandwidth: 20 MHz)	240 mV
Spikes peak-peak, typ. (bandwidth: 20 MHz)	100 mV
Adjustment range	22.8 26.4 V

Yes
via potentiometer
Green LED for 24 V OK
No overshoot of Vout (soft start)
1.5 s
20 ms
20 A
0 20 A
+45 +70 °C: Derating 2.5%/K
480 W
Yes
2
92 %
45 W
0.5 %
3 %
0.7 ms
6 ms
< 33 V
24 A
Yes
Constant current characteristic
Constant current characteristic
24 A
Yes
Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I
Class I
2.5 m/s
3.5 mA
0.8 mA
0.8 mA IP20
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0.8 mA IP20 Yes CULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 - No - Yes Yes Yes - EN 55022 Class B EN 61000-3-2 EN 61000-6-2 -25 +70 °C with natural convection

Mechanics	
Connection technology	screw-type terminals
Connections	
Supply input	L, N, PE: 1 screw terminal each for 0.5 2.5 mm² single-core/finely stranded
Output	+, -: 2 screw terminals each for 0.5 2.5 mm²
Auxiliary	
width of the enclosure	110 mm
height of the enclosure	125 mm
depth of the enclosure	125 mm
required spacing	
• top	50 mm
• bottom	50 mm
• left	0 mm
• right	0 mm
Weight, approx.	1.8 kg
product feature of the enclosure housing can be lined up	Yes
Installation	Snaps onto DIN rail EN 60715 35x7.5/15
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

