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 1-phase AC or DC Rated voltage value Vin rated 100 240 V supply voltage at DC 100 240 V input voltage 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
supply voltage
■ at DC input voltage ■ 1 at AC ■ at DC Wide-range input Mains buffering Mains buffering at lout rated, min. Rated line frequency 1 Rated line frequency 2 Rated line range input voltage 120 V at rated input voltage 230 V 100 240 V 85 264 V 85 264 V 87 264 V 88 370 V 80 ms; at Vin = 93/187 V 80 Hz 81 AT
input voltage ● 1 at AC ● at DC 88 264 V ● at DC 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 Rated line frequency 2 60 Hz Rated line range input current ● at rated input voltage 120 V ● at rated input voltage 230 V 285 264 V 88 370 V 88 370 V 60 Hz 50 Hz 50 Hz 60 Hz 60 Hz 61 Hz 62 Hz 63 Hz
 ● 1 at AC ● at DC ─ 88 370 V Wide-range input ─ Yes Mains buffering Mains buffering at lout rated, min. ─ 20 ms; at Vin = 93/187 V Rated line frequency 1 ─ Rated line frequency 2 ─ Rated line range ─ at rated input voltage 120 V ─ at rated input voltage 230 V ○ 35 A
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Wide-range input Mains buffering at Vin = 93/187 V Mains buffering at lout rated, min. 20 ms; at Vin = 93/187 V Rated line frequency 1 Rated line frequency 2 60 Hz Rated line range input current • at rated input voltage 120 V • at rated input voltage 230 V 20 ms; at Vin = 93/187 V 50 Hz 50 Hz 50 Hz 50 Hz 21 Stated line frequency 2 62 Stated line range 47 63 Hz
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Outlieb an average light than 1,05 °C) where
Switch-on current limiting (+25 °C), max. 45 A
duration of inrush current limiting at 25 °C
• typical 15 ms
I²t, max. 3.3 A²-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
output voltage at output 1 at DC rated value 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
product function output voltage adjustable Yes
Output voltage setting via potentiometer
Status display Green LED for 24 V OK
On/off behavior No overshoot of Vout (soft start)

Charles dalay may	450	
Startup delay, max.	1.5 s	
Voltage rise, typ.	20 ms	
Rated current value lout rated	20 A	
Current range	0 20 A	
Note Supplied setive power typical	+45 +70 °C: Derating 2.5%/K	
supplied active power typical Parallel switching for enhanced performance	480 W Yes	
Numbers of parallel switchable units for enhanced	2	
performance	2	
Efficiency		
Efficiency at Vout rated, lout rated, approx.	92 %	
Power loss at Vout rated, lout rated, approx.	45 W	
Closed-loop control		
Dynamic mains compensation (Vin rated ±15 %), max.	0.5 %	
Dynamic load smoothing (lout: 10/90/10 %), Uout ± typ.	3 %	
Load step setting time 10 to 90%, typ.	0.7 ms	
Load step setting time 90 to 10%, typ.	6 ms	
Protection and monitoring		
Output overvoltage protection	< 33 V	
Current limitation, typ.	24 A	
property of the output short-circuit proof	Yes	
Short-circuit protection	Constant current characteristic	
enduring short circuit current RMS value		
• typical	24 A	
Overload/short-circuit indicator	-	
Safety		
Primary/secondary isolation	Yes	
galvanic isolation	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178	
Protection class	Class I	
leakage current		
• maximum	3.5 mA	
• typical	0.8 mA	
Degree of protection (EN 60529)	IP20	
Approvals		
CE mark	Yes	
UL/cUL (CSA) approval	cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259	
certificate of suitability NEC Class 2	No	
CB approval	Yes	
certificate of suitability EAC approval	Yes	
Marine approval	-	
EMC		
Emitted interference	EN 55022 Class B	
Supply harmonics limitation	EN 61000-3-2	
Noise immunity	EN 61000-6-2	
environmental conditions		
ambient temperature		
during operation	-25 +70 °C	
— Note	with natural convection	
during transport	-40 +85 °C	
during transport during storage	-40 +85 °C	
Humidity class according to EN 60721	Climate class 3K3, 5 95% no condensation	
Mechanics		
	screw-type terminals	
Connection technology	screw-type terminals	
Connection technology Connections		
Connection technology	L, N, PE: 1 screw terminal each for 0.5 2.5 mm² single-core/finely stranded	
Connection technology Connections	L, N, PE: 1 screw terminal each for 0.5 2.5 mm² single-core/finely	
Connection technology Connections • Supply input	L, N, PE: 1 screw terminal each for 0.5 2.5 mm² single-core/finely stranded	

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)

