SIEMENS

Data sheet 6EP1332-1LB00



SITOP PSU100L/1AC/24VDC/2.5A

SITOP PSU100L 24 V/2.5 A Stabilized power supply input: 120/230 V AC, output: DC 24 V/2,5 A

Input	
Input	1-phase AC
Note	Set by means of selector switch on the device
supply voltage	
 1 at AC rated value 	120 V
2 at AC rated value	230 V
input voltage	
• 1 at AC	93 132 V
• 2 at AC	187 264 V
Wide-range input	No
Overvoltage resistance	2.3 × Vin rated, 1.3 ms
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 	1.1 A
at rated input voltage 230 V	0.65 A
Switch-on current limiting (+25 °C), max.	27 A
duration of inrush current limiting at 25 °C	
• typical	3 ms
I²t, max.	0.3 A ² ·s
Built-in incoming fuse	T 2 A/250 V (not accessible)
Protection in the mains power input (IEC 898)	Recommended miniature circuit breaker: from 3 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.	0.5 %
Residual ripple peak-peak, max.	150 mV
Residual ripple peak-peak, typ.	10 mV
Spikes peak-peak, max. (bandwidth: 20 MHz)	240 mV

Spikes peak-peak, typ. (bandwidth: 20 MHz)	50 mV
	22.8 26.4 V
Adjustment range product function output voltage adjustable	Yes
Output voltage setting	via potentiometer
	Green LED for 24 V OK
Status display On/off behavior	Overshoot of Vout approx. 4 %
	1.5 s
Startup delay, max.	1.5 s 150 ms
Voltage rise, typ.	
Rated current value lout rated	2.5 A
Current range	0 2.5 A
• Note	+45 +60 °C: Derating 2%/K
supplied active power typical	60 W
Parallel switching for enhanced performance	Yes
Numbers of parallel switchable units for enhanced performance	2
Efficiency	
Efficiency at Vout rated, lout rated, approx.	85 %
Power loss at Vout rated, lout rated, approx.	9 W
Closed-loop control	
Dynamic mains compensation (Vin rated ±15 %), max.	0.3 %
Dynamic load smoothing (lout: 10/90/10 %), Uout ± typ.	2 %
Load step setting time 10 to 90%, typ.	0.5 ms
Load step setting time 90 to 10%, typ.	0.7 ms
Protection and monitoring	
Output overvoltage protection	< 33 V
Current limitation, typ.	2.6 A
property of the output short-circuit proof	Yes
Short-circuit protection	Constant current characteristic
enduring short circuit current RMS value	
• typical	4 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	0.4 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
Explosion protection	-
certificate of suitability NEC Class 2	No
FM approval	-
CB approval	Yes
certificate of suitability EAC approval	Yes
Marine approval	-
EMC	
Emitted interference	EN 55022 Class A
Supply harmonics limitation	not applicable EN 61000-6-2
Noise immunity	LN 0 1000-0-2
environmental conditions	
ambient temperature	060 °C
during operation	0 60 °C
— Note	with natural convection -40 +85 °C
	-411 +85 T
during transportduring storage	-40 +85 °C

Humidity class according to EN 60721	Climate class 3K3, 5 95% no condensation
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	32.5 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
Weight, approx.	0.3 kg
product feature of the enclosure housing can be lined up	Yes
Installation	Snaps onto DIN rail EN 60715 35x7.5/15
MTBF at 40 °C	3 153 082 h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

