## **SIEMENS**

Data sheet 6EP1333-1LB00



SITOP PSU100L 24 V/5 A STABILIZED POWER SUPPLY INPUT: 120/230 V AC OUTPUT: 24 V/5 A DC

Technical specifications		
Product	SITOP PSU100L	
Power supply, type	24 V/5 A	
Input		
Input	1-phase AC	
Supply voltage 1 with AC Rated value	120 V	
Supply voltage 2 with AC Rated value	230 V	
• Note	Set by means of selector switch on the device	
Input voltage 1 with AC	02 422 1/	

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• Note	Set by means of selector switch on the device
Input voltage 1 with AC	93 132 V
Input voltage 2 with AC	187 264 V
Wide-range input	No
Overvoltage resistance	2.3 × Vin rated, 1.3 ms
Mains buffering at lout rated, min.	20 ms; at Vin = 93/187 V
Rated line frequency	50 60 Hz
Rated line range	47 63 Hz
Input current at rated input voltage 120 V Rated value	2.1 A
Input current at rated input voltage 230 V Rated value	1.15 A
Switch-on current limiting (+25 °C), max.	32 A
Duration of inrush current limiting at 25 °C typical	3 ms
I²t, max.	0.8 A <sup>2</sup> ·s

## Output

Built-in incoming fuse

Protection in the mains power input (IEC 898)

T 3,15 A/250 V (not accessible)

Recommended miniature circuit breaker: from 6 A characteristic C

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.	50 mV
Spikes peak-peak, max. (bandwidth: 20 MHz)	240 mV
Spikes peak-peak, typ. (bandwidth: 20 MHz)	150 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	Overshoot of Vout approx. 4 %
Startup delay, max.	1.5 s
Voltage rise, typ.	130 ms
Rated current value lout rated	5 A
Current range	0 5 A
Note	+45 +60 °C: Derating 2%/K
Active power supplied typical	120 W
Parallel switching for enhanced performance	Yes
Numbers of parallel switchable units for enhanced	2
performance	
Efficiency	
Efficiency at Vout rated, lout rated, approx.	86 %
Power loss at Vout rated, lout rated, approx.	17 W
Closed-loop control	
Dynamic mains compensation (Vin rated ±15 %),	0.3 %
max.  Dynamic load smoothing (lout: 10/90/10 %), Uout ±	2 %
typ.	2 /0
Load step setting time 10 to 90%, typ.	0.4 ms
Load step setting time 90 to 10%, typ.	0.4 ms
Load stop setting time so to 10%, typ.	0.11110
Protection and monitoring	
Output overvoltage protection	< 33 V
Current limitation, typ.	5.25 A
Property of the output Short-circuit proof	Yes
Short-circuit protection	Constant current characteristic
Enduring short circuit current RMS value typical	8 A
Overload/short-circuit indicator	-
Safety	
Primary/secondary isolation	Yes
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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
Leakage current typical	0.4 mA
CE mark	Yes
UL/CSA approval	Yes
UL/cUL (CSA) approval	cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
Explosion protection	-
Certificate of suitability IECEx	No
Certificate of suitability NEC Class 2	No
FM approval	-
CB approval	Yes
Marine approval	-
Degree of protection (EN 60529)	IP20
TMC	
EMC Emitted interference	EN 55022 Class A
Supply harmonics limitation	
Noise immunity	EN 61000-6-2
Noise inimunity	LIV 01000-0-2
Operating data	
Ambient temperature during operation	0 60 °C
Note	with natural convection
Ambient temperature during transport	-40 +85 °C
Ambient temperature during storage	-40 +85 °C
Humidity class according to EN 60721	Climate class 3K3, 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
Connections Output	+, -: 2 screw terminals each for 0.5 2.5 mm²
Connections Auxiliary	-
Width of the enclosure	50 mm
Height of the enclosure	125 mm
Depth of the enclosure	120 mm
Weight, approx.	0.5 kg
Product property of the enclosure housing for side- by-side mounting	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)