## **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



nput	
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	
<ul> <li>at rated input voltage 120 V</li> </ul>	1.1 A
<ul> <li>at rated input voltage 230 V</li> </ul>	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 A²·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
Trotodon in the maine power input (i_e ccc)	Tradelinia de l'iminatara sirant pranta. Il siri e 71 sirantatara 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
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.	150 ms
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	2
performance	
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 %),	0.3 %
max.	0.07
Dynamic load smoothing (lout: 10/90/10 %), Uout ±	2 %
Load step setting time 10 to 90%, typ.	0.5 ms
Load step setting time 10 to 90%, typ.  Load step setting time 90 to 10%, typ.	0.5 ms
Load Stop Solding little 30 to 1070, typ.	0.7 1113
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
Marine approval	-
EMC	
Emitted interference	EN 55022 Class A
Supply harmonics limitation	not applicable
Noise immunity	EN 61000-6-2
environmental conditions	
ambient temperature	
<ul><li>during operation</li></ul>	0 60 °C
— Note	with natural convection
during transport	-40 +85 °C
during 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

Output

Auxiliary

core/finely stranded

L, N, PE: 1 screw terminal each for 0.5 ... 2.5 mm² single-

+, -: 2 screw terminals each for 0.5 ... 2.5 mm²

width of the enclosure	32.5 mm
height of the enclosure	125 mm
depth of the enclosure	120 mm
required spacing	
<ul> <li>top</li> </ul>	50 mm
• bottom	50 mm
• left	0 mm
• right	0 mm
Weight, approx.	0.3 kg
product feature of the enclosure housing for side-by- side mounting	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)