SIEMENS

Data sheet 6EP1334-1LB00



SITOP PSU100L 24 V/10 A SITOP PSU100L 24 V/10 A STABILIZED POWER SUPPLY INPUT: 120/230 V AC OUTPUT: 24 V/10 A DC

Input	
Input	1-phase AC
Supply voltage	
• 1 with AC Rated value	120 V
• 2 with AC Rated value	230 V
• Note	Set by means of selector switch on the device
Input voltage	
• 1 with AC	93 132 V
• 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 	4.1 A
 at rated input voltage 230 V 	2.4 A
Switch-on current limiting (+25 °C), max.	65 A
Duration of inrush current limiting at 25 °C	
• typical	3 ms
l²t, max.	3.3 A ² ·s
Built-in incoming fuse	T 6.3 A/250 V (not accessible)
Protection in the mains power input (IEC 898)	Recommended miniature circuit breaker: from 10 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.	170 ms
Rated current value lout rated	10 A
Current range	0 10 A
• Note	+45 +60 °C: Derating 2%/K
Active power supplied typical	240 W
Parallel switching for enhanced performance	Yes
Numbers of parallel switchable units for enhanced	2
performance	
-rr ·	
Efficiency Efficiency at Vout rated, lout rated, approx.	89 %
Power loss at Vout rated, lout rated, approx.	34 W
rower loss at vout rated, lout rated, approx.	34 VV
Closed-loop control	
Dynamic mains compensation (Vin rated ±15 %),	0.3 %
max.	
Dynamic load smoothing (lout: 10/90/10 %), Uout ±	2 %
typ.	
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.	10.5 A
Property of the output Short-circuit proof	Yes
Short-circuit protection	Constant current characteristic
Enduring short circuit current RMS value	
• typical	16 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
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

EMC	
Emitted interference	EN 55022 Class A
Supply harmonics limitation	-
Noise immunity	EN 61000-6-2

Operating data	
Ambient temperature	
during operation	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, 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	70 mm
Height of the enclosure	125 mm
Depth of the enclosure	120 mm
Weight, approx.	0.75 kg
Product property of the enclosure housing for side- by-side mounting	Yes
Installation	Snaps onto DIN rail EN 60715 35x7.5/15

Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)