

6EP1334-1LB00 SITOP PSU100L 24 V/10 A

Technical / CAx data

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

Technical specifications	
Product	SITOP PSU100L
Power supply, type	24 V/10 A
Input	
Input	1-phase AC
Supply voltage / 1 / at AC / nominal value	120 V
Supply voltage / 2 / at AC / nominal value	230 V
Voltage range	
<ul style="list-style-type: none"> Note 	Set by means of selector switch on the device
Input voltage / 1 / at AC	93...132 V
Input voltage / 2 / at AC	187...264 V
Wide-range input	No
Oversvoltage resistance	$2.3 \times V_{in}$ rated, 1.3 ms
Mains buffering at I _{out} rated, min.	20 ms
Mains buffering	at V _{in} = 93/187 V
Rated line frequency	50/60 Hz
Rated line range	47...63 Hz
Input current / at nominal level of the input voltage 120 V	4.1 A
Input current / at nominal level of the input voltage 230 V	2.4 A
Switch-on current limiting (+25 °C), max.	65 A
Duration of current limiting / at 25 °C / typical	3 ms
I ² t, 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	
Output	Controlled, isolated DC voltage
Rated voltage V_{out} DC	24 V
Total tolerance, static \pm	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 feature / output voltage adjustable	Yes
Output voltage setting	via potentiometer
Status display	Green LED for 24 V OK
On/off behavior	Overshoot of V_{out} approx. 4 %
Startup delay, max.	1.5 s
Voltage rise, typ.	170 ms
Rated current value I_{out} rated	10 A
Current range	0...10 A
<ul style="list-style-type: none"> Note 	10 A up to +45 °C, 7 A up to +60 °C
delivered active power / typ.	240 W
Parallel switching for enhanced performance	Yes
Numbers of parallel switchable units for enhanced performance	2
Efficiency	
Efficiency at V_{out} rated, I_{out} rated, approx.	89 %
Power loss at V_{out} rated, I_{out} rated, approx.	34 W
Closed-loop control	
Dynamic mains compensation (V_{in} rated ± 15 %), max.	0.3 %
Dynamic load smoothing (I_{out} : 10/90/10 %), $U_{out} \pm$ 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.	10.5 A
Characteristic feature of the output / short-circuit protected	Yes
Short-circuit protection	Constant current characteristic
Enduring short circuit current / Effective level / typical	16 A
Overload/short-circuit indicator	-
Safety	
Primary/secondary isolation	Yes
Potential separation	Safety extra-low output voltage U_{out} acc. to EN 60950-1 and EN 50178
Protection class	Class I
stray current / maximum	3.5 mA
stray current / 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	-
FM approval	-
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 / in operation	0...60 °C
• Note	with natural convection
Ambient temperature / on transport	-40...+85 °C
Ambient temperature / in 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 mm ² single-core/finely stranded
Connections / Output	+, -: 2 screw terminals each for 0.5 ... 2.5 mm ²
Connections / Auxiliary	-
Width / of the housing	70 mm
Height / of the housing	125 mm
Depth / of the housing	125 mm
Installation width	70 mm
Mounting height	225 mm
Weight, approx.	0.75 kg
Product feature / of the housing / housing for side-by-side mounting	Yes
Type of mounting / wall mounting	No
Type of fixing / cap rail mounting	Yes
Type of mounting / S7-300 rail mounting	No
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)
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