SIEMENS

Data sheet 6EP1333-7CA00



SITOP PSU100P/1AC/24VDC/5A/IP67

SITOP PSU100P IP67 Stabilized power supply input: 120/230 V AC, output: 24 V DC/5 A

Input	
Input	1-phase AC
Note	Automatic range selection
supply voltage	
 1 at AC rated value 	120 V
2 at AC rated value	230 V
input voltage	
• 1 at AC	85 132 V
• 2 at AC	170 264 V
Wide-range input	No
Overvoltage resistance	Implemented internally with varistor
Mains buffering	at Vin = 120/230 V
Mains buffering at lout rated, min.	40 ms; at Vin = 120/230 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 	2.25 A
 at rated input voltage 230 V 	1.24 A
Switch-on current limiting (+25 °C), max.	15 A
I²t, max.	0.6 A ² ·s
Built-in incoming fuse	T 3.15 A
Protection in the mains power input (IEC 898)	Recommended miniature circuit breaker: from 6 A characteristic C/B
Output	
Output	Controlled, isolated DC voltage
Rated voltage Vout DC	24 V
• output voltage at output 1 at DC rated value	24 V
Total tolerance, static ±	3 %
Static mains compensation, approx.	0.1 %
Static load balancing, approx.	0.2 %
Residual ripple peak-peak, max.	50 mV
Spikes peak-peak, max. (bandwidth: 20 MHz)	100 mV
product function output voltage adjustable	No
Status display	Green LED: 24 V OK; red LED flashing: "overload/short-circuit"
Signaling	Relay contact (NO contact, rating 30 V AC/ 0.5 A; 30 V DC/1 A) for 24 V

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On/off behavior	OK Overshoot of Vout < 3 %
	Overshoot of Vout < 3 % 1.5 s
Startup delay, max.	
Voltage rise, typ.	22 ms
voltage increase time of the output voltage maximum	100 ms
Rated current value lout rated	5 A
Current range	_ 0 5 A
supplied active power typical	133 W
short-term overload current	20 A
on short-circuiting during the start-up typical of short circuit during expertion typical	20 A 20 A
at short-circuit during operation typical	20 A
duration of overloading capability for excess current	50 mg
on short-circuiting during the start-up of short circuit during expertion	50 ms 50 ms
at short-circuit during operation Perallel switching for enhanced performance.	
Parallel switching for enhanced performance Numbers of parallel switchable units for enhanced	Yes; Symmetric wiring required
performance	2
Efficiency	
Efficiency at Vout rated, lout rated, approx.	90 %
Power loss at Vout rated, lout rated, approx.	12.9 W
Closed-loop control	
Dynamic mains compensation (Vin rated ±15 %), max.	0.2 %
Dynamic load smoothing (lout: 50/100/50 %), Uout ± typ.	1 %
setting time maximum	2 ms
Protection and monitoring	
Output overvoltage protection	< 29 V
Current limitation, typ.	5.5 A
property of the output short-circuit proof	Yes
Short-circuit protection	Electronic shutdown, automatic restart
enduring short circuit current RMS value	
• maximum	6 A
• typical	5 A
Overload/short-circuit indicator	Red LED flashing for "overload/short-circuit"
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	1 mA
Degree of protection (EN 60529)	IP67, enclosure type 5 indoor
Approvals	
CE mark	Yes
UL/cUL (CSA) approval	cULus-Listed (UL 508, CSA C22.2 No. 107.1)
Explosion protection	-
certificate of suitability NEC Class 2	No
FM approval	-
CB approval	- No
certificate of suitability EAC approval	Yes
Marine approval	-
EMC	
Emitted interference	EN 55022 Class B
Supply harmonics limitation	EN 61000-3-2
Noise immunity	EN 61000-3-2 EN 61000-6-2
	LIV 01000-0-2
environmental conditions	
ambient temperature	25 160 °C
during operation	-25 +60 °C
— Note	with natural convection

 during transport 	-40 +85 °C
during storage	-40 +85 °C
Humidity class according to EN 60721	3K6 without direct sunlight
Mechanics	
Connection technology	screw-type terminals
Connections	
Supply input	L1, N, PE: Plug connector 7/8" (counterpart see "Operating Instructions (compact)")
Output	+, -: Plug connector 7/8" (counterpart see "Operating Instructions (compact)")
Auxiliary	Alarm signals: M12 plug-in connector 4-pin
product function	
 removable terminal at input 	Yes
 removable terminal at output 	Yes
width of the enclosure	120 mm
height of the enclosure	181 mm
depth of the enclosure	60.5 mm
required spacing	
• top	50 mm
• bottom	0 mm
● left	0 mm
• right	0 mm
Weight, approx.	1.1 kg
product feature of the enclosure housing can be lined up	Yes
Installation	Wall mounting
MTBF at 40 °C	1 500 000 h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

