SIEMENS

Data sheet

6EP1323-2BA00



SITOP PSU100S 12 V/14 A Stabilized power supply input: 120/230 V AC, output: 12 V DC/14 A

1-phase AC Input Automatic range selection Note supply voltage • 1 at AC rated value 120 V 230 V • 2 at AC rated value input voltage • 1 at AC 85 ... 132 V • 2 at AC 170 ... 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 47 ... 63 Hz Rated line range input current • at rated input voltage 120 V 3.24 A • at rated input voltage 230 V 1.41 A Switch-on current limiting (+25 °C), max. 60 A Built-in incoming fuse T 6.3 A/250 V (not accessible) Recommended miniature circuit breaker: from 10 A characteristic C Protection in the mains power input (IEC 898) Output Output Controlled, isolated DC voltage 12 V Rated voltage Vout DC Total tolerance, static ± 3 % Static mains compensation, approx. 0.1 %

SITOP PSU100S/1AC/12VDC/14A

 Dutput
 Controlled, isolated DC voltage

 Rated voltage Vout DC
 12 V

 Total tolerance, static ±
 3 %

 Static mains compensation, approx.
 0.1 %

 Static load balancing, approx.
 1 %

 Residual ripple peak-peak, max.
 150 mV

 Spikes peak-peak, max. (bandwidth: 20 MHz)
 240 mV

 Spikes peak-peak, typ. (bandwidth: 20 MHz)
 100 mV

 Adjustment range
 11.5 ... 15.5 V

 product function output voltage adjustable
 Yes

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Output voltage patting	via potentiemeter
Output voltage setting	via potentiometer
Status display	Green LED for 12 V OK
Signaling	Relay contact (NO contact, rating 60 V DC/ 0.3 A) for 12 V OK
On/off behavior	Overshoot of Vout < 3 %
Startup delay, max.	0.3 s
Voltage rise, typ.	10 ms
Rated current value lout rated	14 A
Current range	0 14 A
Note	+50 +70 °C: Derating 3.5%/K
supplied active power typical	168 W
short-term overload current	
 on short-circuiting during the start-up typical 	40 A
at short-circuit during operation typical	40 A
duration of overloading capability for excess current	
 on short-circuiting during the start-up 	800 ms
at short-circuit during operation	800 ms
Parallel switching for enhanced performance	Yes
Numbers of parallel switchable units for enhanced	2
performance	2
Efficiency	
	87 %
Efficiency at Vout rated, lout rated, approx.	-
Power loss at Vout rated, lout rated, approx.	24 W
Closed-loop control	
Dynamic load smoothing (lout: 10/90/10 %), Uout ± typ.	5 %
Load step setting time 10 to 90%, typ.	1 ms
Load step setting time 90 to 10%, typ.	1 ms
Protection and monitoring	
Output overvoltage protection	< 20 V
Current limitation	 14 16.4 A
property of the output short-circuit proof	Yes
Short-circuit protection	Constant current characteristic
enduring short circuit current RMS value	
typical	16.4 A
overcurrent overload capability in normal operation	overload capability 150 % lout rated up to 5 s/min
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
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, cCSAus
Explosion protection	 (CSA C22.2 No. 60950-1, UL 60950-1) IECEX EX nA nC IIC T4 Gc; ATEX (EX) II 3G EX nA nC IIC T4 Gc; cULus Class I Div. 2 (ANSI/ISA-12.12.01-2007, CSA C22.2 No. 213) Group ABCD, T4; cCSAus (CSA C22.2 No. 213, ANSI/ISA-12.12.01) Class I, Div. 2, Group ABCD, T4
certificate of suitability NEC Class 2	No
FM approval	
CB approval	Yes
certificate of suitability EAC approval	Yes
Marine approval	DNV GL
EMC	
Emitted interference	
Supply harmonics limitation	EN 55022 Class B EN 61000-3-2

Noise immunity	EN 61000-6-2
environmental conditions	
ambient temperature	
 during operation 	-25 +70 °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 	L, N, PE: 1 screw terminal each for 0.5 2.5 mm ² single-core/finely stranded
Output	+, -: 2 screw terminals each for 0.5 2.5 mm ²
Auxiliary	Alarm signals: 2 screw terminals for 0.5 2.5 mm ²
 signaling contact 	2 screw terminals for 0.5 2.5 mm ²
width of the enclosure	70 mm
height of the enclosure	125 mm
depth of the enclosure	120 mm
required spacing	
• top	50 mm
bottom	50 mm
• left	0 mm
• right	0 mm
Weight, approx.	0.7 kg
product feature of the enclosure housing can be lined up	Yes
Installation	Snaps onto DIN rail EN 60715 35x7.5/15
MTBF at 40 °C	1 614 510 h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

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