SIEMENS

Data sheet 6EP1323-2BA00



SITOP PSU100S/1AC/12VDC/14A

SITOP PSU100S 12 V/14 A stabilized power supply input: 120/230 V AC output: 12 V DC/14 A *Ex approval no longer available*

Input

type of the power supply network

supply voltage at AC

• initial value

supply voltage

- 1 at AC rated value
- 2 at AC rated value

input voltage

- 1 at AC
- 2 at AC

design of input wide range input

overvoltage overload capability

operating condition of the mains buffering

buffering time for rated value of the output current in the

event of power failure minimum

operating condition of the mains buffering

line frequency

- 1 rated value
- 2 rated value

line frequency

input current

- at rated input voltage 120 V
- at rated input voltage 230 V

current limitation of inrush current at 25 °C maximum

fuse protection type

• in the feeder

1-phase AC

Automatic range selection

120 V

230 V

85 ... 132 V

170 ... 264 V

No

2.3 × Vin rated, 1.3 ms

at Vin = 93/187 V

20 ms

at Vin = 93/187 V

50 Hz

60 Hz

47 ... 63 Hz

3.24 A

1.41 A

60 A

T 6.3 A/250 V (not accessible)

Recommended miniature circuit breaker: from 10 A characteristic C

Output

voltage curve at output

output voltage at DC rated value

output voltage

• at output 1 at DC rated value relative overall tolerance of the voltage

relative control precision of the output voltage

- on slow fluctuation of input voltage
- on slow fluctuation of ohm loading

residual ripple

- maximum
- typical

voltage peak

• maximum

- typical
 - typical

adjustable output voltage

Controlled, isolated DC voltage

12 V

12 V 3 %

0.1 %

1 %

150 mV 20 mV

240 mV

240 mV 100 mV

11.5 ... 15.5 V

product function output voltage adjustable	Yes
type of output voltage setting	via potentiometer
display version for normal operation	Green LED for 12 V OK
type of signal at output	Relay contact (NO contact, rating 60 V DC/ 0.3 A) for 12 V OK
behavior of the output voltage when switching on	Overshoot of Vout < 3 %
response delay maximum	0.3 s
voltage increase time of the output voltage	
• typical	10 ms
output current	
• rated value	14 A
rated range	0 14 A; +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	1071
on short-circuiting during the start-up	800 ms
at short-circuit during operation	800 ms
product feature	000 IIIS
•	Voo
bridging of equipment number of parallel switched againment recourses for	Yes
number of parallel-switched equipment resources for increasing the power	2
Efficiency	
efficiency in percent	87 %
power loss [W]	
 at rated output voltage for rated value of the output 	24 W
current typical	
Closed-loop control	
relative control precision of the output voltage at load step	5 %
of resistive load 10/90/10 % typical	
setting time	
load step 10 to 90% typical	1 ms
load step 90 to 10% typical	1 ms
load step 90 to 10% typical Protection and monitoring	1 ms
Protection and monitoring	
Protection and monitoring design of the overvoltage protection	< 20 V
Protection and monitoring design of the overvoltage protection response value current limitation	< 20 V 14 16.4 A
Protection and monitoring design of the overvoltage protection response value current limitation property of the output short-circuit proof	< 20 V 14 16.4 A Yes
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type of certification CB-certificate	Yes
certificate of suitability	
 EAC approval 	Yes
certificate of suitability shipbuilding approval	Yes
shipbuilding approval	DNV GL
Marine classification association	
 American Bureau of Shipping Europe Ltd. (ABS) 	No
 French marine classification society (BV) 	No
DNV GL	Yes
 Lloyds Register of Shipping (LRS) 	No
 Nippon Kaiji Kyokai (NK) 	No
EMC	
standard	
 for emitted interference 	EN 55022 Class B
 for mains harmonics limitation 	EN 61000-3-2
 for interference immunity 	EN 61000-6-2
environmental conditions	
ambient temperature	
 during operation 	-25 +70 °C; with natural convection
 during transport 	-40 +85 °C
 during storage 	-40 +85 °C
environmental category according to IEC 60721	Climate class 3K3, 5 95% no condensation
Mechanics	
type of electrical connection	screw-type terminals
at input	L, N, PE: 1 screw terminal each for 0.5 2.5 mm² single-core/finely stranded
at output	+, -: 2 screw terminals each for 0.5 2.5 mm ²
 for auxiliary contacts 	Alarm signals: 2 screw terminals for 0.5 2.5 mm ²
 for 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
net weight	0.7 kg
product feature of the enclosure housing can be lined up	Yes
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15
MTBF at 40 °C	1 614 510 h



Specifications at rated input voltage and ambient temperature +25 $^{\circ}\text{C}$ (unless otherwise specified)

other information