SIEMENS

Data sheet 6EP1323-2BA00



SITOP PSU100S/1AC/12VDC/14A

Siemens EcoTech

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



input		
type of the power supply network	1-phase AC	
supply voltage at AC	Automatic range selection	
supply voltage	120 V/230 V	
input voltage 1 at AC	85 132 V	
input voltage 2 at AC	170 264 V	
wide range input	No	
overvoltage overload capability	2.3 × Vin rated, 1.3 ms	
buffering time for rated value of the output current in the event of power failure minimum	20 ms	
operating condition of the mains buffering	at Vin = 93/187 V	
line frequency	50/60 Hz	
line frequency	47 63 Hz	
input current		
 at rated input voltage 120 V 	3.24 A	
at rated input voltage 230 V	1.41 A	
current limitation of inrush current at 25 °C maximum	60 A	
fuse protection type	T 6.3 A/250 V (not accessible)	
fuse protection type in the feeder	Recommended miniature circuit breaker: from 10 A characteristic C	
output		
voltage curve at output	Controlled, isolated DC voltage	
output voltage at DC rated value	12 V	
output voltage		
at output 1 at DC rated value	12 V	
output voltage adjustable	Yes; via potentiometer	
adjustable output voltage	11.5 15.5 V	
relative overall tolerance of the voltage	3 %	
relative control precision of the output voltage		
 on slow fluctuation of input voltage 	0.1 %	
 on slow fluctuation of ohm loading 	1 %	
residual ripple		
• maximum	150 mV	
• typical	20 mV	
voltage peak		
• maximum	240 mV	
• typical	100 mV	
display version for normal operation	Green LED for 12 V OK	

tupe of signal at output	Polay contact (NO contact, rating COV/DC/ 0.2 A) for 40 V/OV	
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		
on short-circuiting during the start-up	800 ms	
at short-circuit during operation	800 ms	
bridging of equipment	Yes	
number of parallel-switched equipment resources for increasing	2	
the power		
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 of resistive load 10/90/10 % typical	5 %	
setting time		
 load step 10 to 90% typical 	1 ms	
load step 90 to 10% typical	1 ms	
protection and monitoring		
design of the overvoltage protection	< 20 V	
property of the output short-circuit proof	Yes	
design of short-circuit protection	Constant current characteristic	
response value current limitation	14 16.4 A	
overcurrent overload capability	1110.17	
in normal operation	overload capability 150 % lout rated up to 5 s/min	
enduring short circuit current RMS value	Overload capability 150 % fout rated up to 5 smilli	
3	16.4 A	
• typical	10.4 A	
safety	V.	
galvanic isolation between input and output	Yes	
galvanic isolation	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178	
operating resource protection class	Class I	
leakage current		
• maximum	3.5 mA	
• typical	0.8 mA	
protection class IP	IP20	
EMC		
standard		
• for emitted interference	EN 55022 Class B	
 for mains harmonics limitation 	EN 61000-3-2	
• for interference immunity	EN 61000-6-2	
standards, specifications, approvals		
certificate of suitability		
• CE marking	Yes	
UL approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus	
••	(CSA C22.2 No. 60950-1, UL 60950-1)	
CSA approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus	
LUCA manding	(CSA C22.2 No. 60950-1, UL 60950-1)	
UKCA marking	Yes	
 EAC approval 		
	Yes	
NEC Class 2 type of certification	No No	

CB-certificate	Yes
MTBF at 40 °C	1 614 510 h
standards, specifications, approvals hazardous environments	
certificate of suitability	
• IECEx	No
• ATEX	No
ULhazloc approval	No
• cCSAus, Class 1, Division 2	No
• FM registration	No
standards, specifications, approvals marine classification	
shipbuilding approval	Yes
Marine classification association	
 American Bureau of Shipping Europe Ltd. (ABS) 	No
 French marine classification society (BV) 	No
Det Norske Veritas (DNV)	Yes
Lloyds Register of Shipping (LRS)	No
standards, specifications, approvals Environmental Product Dec	claration
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
• total	669.4 kg
during manufacturing	18 kg
during operation	650.7 kg
after end of life	0.52 kg
Siemens Eco Profile (SEP)	Siemens EcoTech
ambient 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
connection method	
type of electrical connection	screw terminal
• 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 mm²
mechanical data	
mechanical data width × height × depth of the enclosure	70 × 125 × 120 mm
	70 × 125 × 120 mm 70 mm × 225 mm
width × height × depth of the enclosure	
width × height × depth of the enclosure installation width × mounting height	
width × height × depth of the enclosure installation width × mounting height required spacing	70 mm × 225 mm
width × height × depth of the enclosure installation width × mounting height required spacing • top	70 mm × 225 mm 50 mm
width × height × depth of the enclosure installation width × mounting height required spacing • top • bottom	70 mm × 225 mm 50 mm 50 mm
width × height × depth of the enclosure installation width × mounting height required spacing	70 mm × 225 mm 50 mm 0 mm
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width × height × depth of the enclosure installation width × mounting height required spacing • top • bottom • left • right fastening method • DIN-rail mounting • S7 rail mounting • wall mounting housing can be lined up net weight further information internet links internet link • to website: Industry Mall • to web page: selection aid TIA Selection Tool	70 mm × 225 mm 50 mm 50 mm 0 mm 0 mm Snaps onto DIN rail EN 60715 35x7.5/15 Yes No No Yes 0.7 kg https://mall.industry.siemens.com https://www.siemens.com/tstcloud
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security information

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Classifications

	Version	Classification
eClass	14	27-04-07-01
eClass	12	27-04-07-01
eClass	9.1	27-04-07-01
eClass	9	27-04-07-01
eClass	8	27-04-90-02
eClass	7.1	27-04-90-02
eClass	6	27-04-90-02
ETIM	9	EC002540
ETIM	8	EC002540
ETIM	7	EC002540
IDEA	4	4130
UNSPSC	15	39-12-10-04

Approvals Certificates

General Product Approval





Manufacturer Declaration

Declaration of Conformity



General Product Approval

Maritime application

Environment



Miscellaneous





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