SIEMENS

Data sheet 6EP1334-2BA20



SITOP PSU100S/1AC/24VDC/10A

SITOP PSU100S 24 V/10 A stabilized power supply input: 120/230 V AC output: 24 V DC/10 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 	4.49 A	
• at rated input voltage 230 V	1.91 A	
current limitation of inrush current at 25 °C maximum	60 A	
I2t value maximum	5.6 A²·s	
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	24 V	
output voltage		
at output 1 at DC rated value	24 V	
output voltage adjustable	Yes; via potentiometer	
adjustable output voltage	22.8 28 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	160 mV	
display version for normal operation	Green LED for 24 V OK	
type of signal at output	Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 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	22	
• typical	20 ms	
output current		
rated value	10 A	
rated range	0 12 A; 12 A up to +45°C; +60 +70 °C: Derating 3%/K	
supplied active power typical	288 W	
short-term overload current		
 on short-circuiting during the start-up typical 	32 A	
at short-circuit during operation typical	32 A	
duration of overloading capability for excess current		
on short-circuiting during the start-up	1 000 ms	
at short-circuit during operation	1 000 ms	
bridging of equipment	Yes	
number of parallel-switched equipment resources for increasing the power	2	
efficiency		
efficiency in percent	90 %	
power loss [W]		
 at rated output voltage for rated value of the output current typical 	25 W	
closed-loop control		
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	0.3 %	
relative control precision of the output voltage at load step of resistive load 10/90/10 % typical	3 %	
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	protection against overvoltage in case of internal fault Vout < 33 V	
property of the output short-circuit proof	Yes	
design of short-circuit protection	Constant current characteristic	
response value current limitation	12 14.6 A	
overcurrent overload capability		
• in normal operation	overload capability 150 % lout rated up to 5 s/min	
enduring short circuit current RMS value		
• typical	14.6 A	
safety		
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 (CSA C22.2 No. 60950-1, UL 60950-1)	
UKCA marking	Yes	
• EAC approval	Yes	
• NEC Class 2	No	
type of certification		
VI CONTRACTOR		

• BIS	Yes; R-41188271
CB-certificate MTRE at 40 °C	Yes
MTBF at 40 °C	1 614 510 h
standards, specifications, approvals hazardous environments	
certificate of suitability	Na
• IECEX	No No
• ATEX	No
ULhazloc approval	No No
• cCSAus, Class 1, Division 2	No No
FM registration Attackage a positional approval a maxima algoritimation	No
standards, specifications, approvals marine classification shipbuilding approval	Yes
Marine classification association	165
American Bureau of Shipping Europe Ltd. (ABS)	No
French marine classification society (BV)	Yes
Det Norske Veritas (DNV)	Yes
Lloyds Register of Shipping (LRS)	No
standards, specifications, approvals Environmental Product Dec	1
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
• total	803.2 kg
during manufacturing	20.7 kg
during manufacturing during operation	781.8 kg
after end of life	0.57 kg
ambient conditions	C.OT Ng
ambient temperature	
during operation	-25 +70; with natural convection
during transport	-40 +85
during storage	-40 +85
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 inputat output	L, N, PE: 1 screw terminal each for 0.5 2.5 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.5 2.5 mm²
•	
• at output	+, -: 2 screw terminals each for 0.5 2.5 mm²
at outputfor auxiliary contacts	+, -: 2 screw terminals each for 0.5 2.5 mm ² Alarm signals: 2 screw terminals for 0.5 2.5 mm ²
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at output for auxiliary contacts for signaling contact mechanical data width × height × depth of the enclosure installation width × mounting height	+, -: 2 screw terminals each for 0.5 2.5 mm ² Alarm signals: 2 screw terminals for 0.5 2.5 mm ² 2 screw terminals for 0.5 2.5 mm ² 70 × 125 × 120 mm
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other information

Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

security information

security information

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

Approvals Certificates

General Product Approval





Manufacturer Declaration

Declaration of Conformity





General Product Approval

Marine / Shipping

Environment



Miscellaneous

BIS CRS







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