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
12t 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 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	240 mV 160 mV
typical display version for normal operation	
· ·	160 mV
display version for normal operation	160 mV Green LED for 24 V OK

voltage increase time of the output voltage	20	
• typical	20 ms	
output current	40.4	
• 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	
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)	
EAC approval	Yes	
NEC Class 2	No	
type of certification		
• BIS	Yes; R-41188271	
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	NO	
shipbuilding approval	Yes	
Marine classification association		
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 De		
Environmental Product Declaration	Yes	
Global Warming Potential [CO2 eq]		
• total	803.2 kg	
during manufacturing	20.7 kg	
during operation	781.8 kg	
after end of life	0.57 kg	
ambient conditions		
ambient temperature		
during operation	-25 +70 °C; with natural convection	
during operation 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 mm ²	
mechanical data		
width × height × depth of the enclosure	70 × 120	
installation width × mounting height	70 mm	
required spacing		
• top	50 mm	
• bottom	50 mm	
• left	0 mm	
• right	0 mm	
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15	
standard rail mounting	Yes	
S7 rail mounting	No	
wall mounting	No	
- wan mounting		
housing can be lined up	Yes	
· · · · · · · · · · · · · · · · · · ·	Yes 0.8 kg	
housing can be lined up		
housing can be lined up net weight		
housing can be lined up net weight accessories	0.8 kg	
housing can be lined up net weight accessories electrical accessories	0.8 kg Buffer module	
housing can be lined up net weight accessories electrical accessories mechanical accessories	0.8 kg Buffer module	
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housing can be lined up net weight accessories electrical accessories mechanical accessories further information internet links internet link	0.8 kg Buffer module Device identification label 20 mm × 7 mm, pale turquoise 3RT1900-1SB20	
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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

Marine / Shipping

Environment

Miscellaneous

BIS CRS







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