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 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	2	
the power		
efficiency	20.04	
efficiency in percent	90 %	
power loss [W]	05.14	
 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	
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 Dec	
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	
ambient temperature	
during operation	-25 +70 °C; with natural convection
during operation during transport	-40 +85 °C
during transport during storage	-40 +85 °C
environmental category according to IEC 60721	Climate class 3K3, 5 95% no condensation
connection method	Climate diass sixs, 5 35 % no condensation
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 mm²
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	2 solew terminals for 6.5 2.5 min
width × height × depth of the enclosure	70 × 125 × 120 mm
installation width × mounting height	70 mm × 225 mm
required spacing	70 Hilli ~ 220 Hilli
• 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
housing can be lined up	Yes
net weight	0.8 kg
accessories	
electrical accessories	Buffer module
mechanical accessories	Device identification label 20 mm × 7 mm, pale turquoise 3RT1900-1SB20
further information internet links	20.100 donalidador labor 20 filiti 7 filiti, pare talquoloc of (17000-10020
internet link	
to website: Industry Mall	https://mall.industry.siemens.com
to website: Industry Mail to website: Industrial communication	https://siemens.com/industrial-communication
to website: CAx-Download-Manager to website: Industry Online Support	https://siemens.com/cax https://support.industry.siemens.com
to website: Industry Online Support additional information	пцрылоирронынциону.овенненк.сонн
	Considerations at rated input voltage and ambient terrographics (OF °C /voltage
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

security information

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
IDEA	4	4130

Approvals Certificates

General Product Approval





Manufacturer Declaration

Declaration of Conformity





General Product Approval

Marine / Shipping

Environment

Miscellaneous

BIS CRS







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