# **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		
<ul> <li>at rated input voltage 120 V</li> </ul>	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		
<ul> <li>on slow fluctuation of input voltage</li> </ul>	0.1 %	
<ul> <li>on slow fluctuation of ohm loading</li> </ul>	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 %	

	0.0	
response delay maximum	0.3 s	
voltage increase time of the output voltage	20	
• 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		
<ul> <li>on short-circuiting during the start-up typical</li> </ul>	32 A	
<ul> <li>at short-circuit during operation typical</li> </ul>	32 A	
duration of overloading capability for excess current		
<ul> <li>on short-circuiting during the start-up</li> </ul>	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		
·	90 %	
efficiency in percent	50 /b	
power loss [W]	25 W	
<ul> <li>at rated output voltage for rated value of the output current typical</li> </ul>	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		
<ul><li>load step 10 to 90% typical</li></ul>	1 ms	
<ul><li>load step 90 to 10% typical</li></ul>	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		
type of outlineadors		

• 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     Annual annua	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
<ul><li>at input</li><li>at output</li></ul>	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
<ul><li>at output</li><li>for auxiliary contacts</li></ul>	+, -: 2 screw terminals each for 0.5 2.5 mm <sup>2</sup> Alarm signals: 2 screw terminals for 0.5 2.5 mm <sup>2</sup>
<ul><li>at output</li><li>for auxiliary contacts</li><li>for signaling contact</li></ul>	+, -: 2 screw terminals each for 0.5 2.5 mm <sup>2</sup> Alarm signals: 2 screw terminals for 0.5 2.5 mm <sup>2</sup>
<ul> <li>at output</li> <li>for auxiliary contacts</li> <li>for signaling contact</li> <li>mechanical data</li> </ul>	+, -: 2 screw terminals each for 0.5 2.5 mm <sup>2</sup> Alarm signals: 2 screw terminals for 0.5 2.5 mm <sup>2</sup> 2 screw terminals for 0.5 2.5 mm <sup>2</sup>
<ul> <li>at output</li> <li>for auxiliary contacts</li> <li>for signaling contact</li> </ul> mechanical data width × height × depth of the enclosure	+, -: 2 screw terminals each for 0.5 2.5 mm <sup>2</sup> Alarm signals: 2 screw terminals for 0.5 2.5 mm <sup>2</sup> 2 screw terminals for 0.5 2.5 mm <sup>2</sup> 70 × 125 × 120 mm
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 <sup>2</sup> Alarm signals: 2 screw terminals for 0.5 2.5 mm <sup>2</sup> 2 screw terminals for 0.5 2.5 mm <sup>2</sup> 70 × 125 × 120 mm
at output for auxiliary contacts for signaling contact  mechanical data  width × height × depth of the enclosure installation width × mounting height required spacing	+, -: 2 screw terminals each for 0.5 2.5 mm <sup>2</sup> Alarm signals: 2 screw terminals for 0.5 2.5 mm <sup>2</sup> 2 screw terminals for 0.5 2.5 mm <sup>2</sup> 70 × 125 × 120 mm 70 mm × 225 mm
at output for auxiliary contacts for signaling contact  mechanical data  width × height × depth of the enclosure installation width × mounting height  required spacing top	+, -: 2 screw terminals each for 0.5 2.5 mm <sup>2</sup> Alarm signals: 2 screw terminals for 0.5 2.5 mm <sup>2</sup> 2 screw terminals for 0.5 2.5 mm <sup>2</sup> 70 × 125 × 120 mm 70 mm × 225 mm  50 mm
<ul> <li>at output</li> <li>for auxiliary contacts</li> <li>for signaling contact</li> </ul> mechanical data width × height × depth of the enclosure installation width × mounting height required spacing <ul> <li>top</li> <li>bottom</li> </ul>	+, -: 2 screw terminals each for 0.5 2.5 mm <sup>2</sup> Alarm signals: 2 screw terminals for 0.5 2.5 mm <sup>2</sup> 2 screw terminals for 0.5 2.5 mm <sup>2</sup> 70 × 125 × 120 mm 70 mm × 225 mm  50 mm 50 mm
<ul> <li>at output</li> <li>for auxiliary contacts</li> <li>for signaling contact</li> <li>mechanical data</li> <li>width × height × depth of the enclosure</li> <li>installation width × mounting height</li> <li>required spacing</li> <li>top</li> <li>bottom</li> <li>left</li> </ul>	+, -: 2 screw terminals each for 0.5 2.5 mm² Alarm signals: 2 screw terminals for 0.5 2.5 mm² 2 screw terminals for 0.5 2.5 mm²  70 × 125 × 120 mm 70 mm × 225 mm  50 mm 50 mm 0 mm
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at output for auxiliary contacts for signaling contact  mechanical data  width × height × depth of the enclosure installation width × mounting height  required spacing  top bottom left right fastening method standard rail mounting S7 rail mounting wall mounting housing can be lined up net weight  accessories electrical accessories	+, -: 2 screw terminals each for 0.5 2.5 mm² Alarm signals: 2 screw terminals for 0.5 2.5 mm² 2 screw terminals for 0.5 2.5 mm²  70 × 125 × 120 mm 70 mm × 225 mm  50 mm 50 mm 0 mm Snaps onto DIN rail EN 60715 35x7.5/15 Yes No No Yes 0.8 kg  Buffer module
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### additional information

other information

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

## security information

security information

Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)

#### Classifications

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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11/25/2024