# **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
<ul> <li>at rated input voltage 230 V</li> </ul>	1.91 A
current limitation of inrush current at 25 °C maximum	60 A
I2t value maximum	5.6 A <sup>2</sup> ·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	
<ul> <li>at output 1 at DC rated value</li> </ul>	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		
• 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	
at short-circuit during operation typical	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	2	
the power		
efficiency		
efficiency in percent	90 %	
power loss [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	
load step 90 to 10% typical	1 ms	
load step 90 to 10% typical protection and monitoring		
· · · ·	1 ms protection against overvoltage in case of internal fault Vout < 33 V	
protection and monitoring		
protection and monitoring         design of the overvoltage protection         property of the output short-circuit proof         design of short-circuit protection	protection against overvoltage in case of internal fault Vout < 33 V Yes Constant current characteristic	
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• EAC approval	Yes
EAC approval     NEC Class 2	No
type of certification	INU
• BIS	Yes; R-41188271
CB-certificate	Yes
MTBF at 40 °C	1 614 510 h
standards, specifications, approvals hazardous environments	1014 510 11
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
<ul> <li>French marine classification society (BV)</li> </ul>	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	699.2 kg
<ul> <li>during manufacturing</li> </ul>	20.6 kg
during operation	677.8 kg
after end of life	0.6 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 mm <sup>2</sup> single-core/finely stranded
<ul> <li>at output</li> </ul>	+, -: 2 screw terminals each for 0.5 2.5 mm <sup>2</sup>
<ul> <li>for auxiliary contacts</li> </ul>	Alarm signals: 2 screw terminals for 0.5 2.5 mm <sup>2</sup>
for signaling contact	2 screw terminals for 0.5 2.5 mm <sup>2</sup>
mechanical data	
width × height × depth of the enclosure	70 × 125 × 120 mm
installation width × mounting height	70 mm × 225 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
• DIN-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	
internet link	https://mall.industry.giomono.com
• to website: Industry Mall	https://mall.industry.siemens.com

<ul> <li>to web page: selection aid TIA Selection Tool</li> </ul>	https://www.siemens.com/tstclc	bud			
• to web page: power supplies	https://siemens.com/sitop				
• to website: CAx-Download-Manager	https://siemens.com/cax	https://siemens.com/cax			
• to website: Industry Online Support	https://support.industry.siemens	https://support.industry.siemens.com			
dditional information					
other information	Specifications at rated input vol otherwise specified)	tage and ambient temper	ature +25 °C (unless		
ecurity information					
security information	that support the secure operation In order to protect plants, system threats, it is necessary to imple- state-of-the-art industrial cybers solutions constitute one element for preventing unauthorized acc networks. Such systems, mach to an enterprise network or the necessary and only when appro- network segmentation) are in pi- cybersecurity measures that may www.siemens.com/cybersecuri- undergo continuous development recommends that product update and that the latest product update and that the latest product vers no longer supported, and failure customer's exposure to cyber the subscribe to the Siemens Indust	Siemens provides products and solutions with industrial cybersecurity function: that support the secure operation of 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 concection in 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 strongl 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.com/cert. (V4.7)			
prossincations.		Version	Classification		
	eClass	14	27-04-07-01		

	VOIDIOII	elacomoation
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



Environment



last modified: