SIEMENS

Data sheet 6EP1332-5BA10



SITOP PSU100C/1ACDC/24VDC/4A

SITOP PSU100C 24 V/4 A stabilized power supply input: 120-230 V AC (110-300 V DC) output: 24 V DC/4 A *Ex approval no longer available*

input		
type of the power supply network	1-phase AC or DC	
supply voltage at AC minimum rated value	100 230 V	
supply voltage at AC maximum rated value		
supply voltage at AC initial value	85 264 V	
supply voltage at AC full-scale value		
input voltage at DC	110 300 V	
wide range input	Yes	
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 = 230 V	
line frequency	50/60 Hz	
line frequency initial value	47 63 Hz	
line frequency full-scale value		
input current		
 at rated input voltage 100 V 	2.25 A	
• at rated input voltage 230 V	1.15 A	
current limitation of inrush current at 25 °C maximum	34 A	
I2t value maximum	3 A²·s	
fuse protection type	internal	
fuse protection type in the feeder	Recommended miniature circuit breaker: from 16 A characteristic B or 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 initial value	22.2 V	
adjustable output voltage full-scale value	26.4 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	0.2 %	
residual ripple		
• maximum	200 mV	
• typical	80 mV	
voltage peak		
• maximum	300 mV	

• typical	80 mV	
display version for normal operation	Green LED for output voltage OK	
behavior of the output voltage when switching on	Overshoot of Vout approx. 1 %	
response delay maximum	1.5 s	
voltage increase time of the output voltage		
• typical	400 ms	
output current	400 III0	
• rated value	4 A	
• rated range	0 4 A; +55 +70 °C: Derating 3%/K; at +70 °C lout rated 2.2 A	
supplied active power typical	96 W	
bridging of equipment	Yes; Start-up with single nominal load only	
number of parallel-switched equipment resources for increasing	i i	
the power	2	
efficiency in percent	88 %	
power loss [W]		
 at rated output voltage for rated value of the output current typical 	13 W	
 during no-load operation maximum 	0.75 W	
closed-loop control		
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	0.1 %	
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 	4 ms	
● load step 90 to 10% typical	4 ms	
protection and monitoring		
design of the overvoltage protection	Yes, according to EN 60950-1	
property of the output short-circuit proof	Yes	
design of short-circuit protection	Electronic shutdown, automatic restart	
response value current limitation typical safety.	4.8 A	
safety galvanic isolation between input and output	Yes	
galvanic isolation between input and output galvanic isolation	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178	
galvanic isolation between input and output galvanic isolation operating resource protection class	Yes	
galvanic isolation between input and output galvanic isolation operating resource protection class leakage current	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I	
galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA	
galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.4 mA	
galvanic isolation between input and output galvanic isolation operating resource protection class leakage current	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA	
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• FM registration	No	
standards, specifications, approvals marine classification		
shipbuilding approval	Yes	
Marine classification association		
American Bureau of Shipping Europe Ltd. (ABS)	Yes	
French marine classification society (BV)	No	
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]	AAA E ka	
• total	444.5 kg	
during manufacturing during experition	6.3 kg	
during operation after and of life.	437.9 kg	
after end of life	0.2 kg	
ambient conditions		
ambient temperature		
during operation	-20 +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-type terminals	
at input	L, N, PE: Removable screw terminal, each for 1 x 0.5 2.5 mm ²	
at output	+: 1 screw terminal for 0.5 2.5 mm ² ; -: 2 screw terminals for 0.5 2.5 mm ²	
for auxiliary contacts	-	
mechanical data		
width × height × depth of the enclosure	52.5 × 80 × 100 mm	
installation width × mounting height	52.5 × 180 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	
housing can be lined up	Yes	
net weight	0.32 kg	
accessories		
electrical accessories	Removable spring-type terminal 6EP1971-5BA00	
further information internet links		
internet link		
• to web page: selection aid TIA Selection Tool	https://siemens.com/tst	
to website: Industrial communication	http://www.siemens.com/simatic-net	
• to website: CAx-Download-Manager	http://www.siemens.com/cax	
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 security 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 security 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 security measures that may be implemented, please visit	
	https://www.siemens.com/industrialsecurity. 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 Security RSS Feed under https://www.siemens.com/cert. (V4.6)

Classifications

	Version	Classification
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

CB





Manufacturer Declara-<u>tion</u>



Declaration of Conformity

General Product Approval













CCC-Ex

Marine / Shipping

Environment







last modified:

2/13/2024

