SIEMENS

Data sheet 6EP1331-5BA10



SITOP PSU100C/1ACDC/24VDC/1.3A

SITOP PSU100C 24 V/1.3 A stabilized power supply input: 120-230 V AC (110-300 V DC) output: 24 V DC/1.3 A

input		
type of the power supply network	1-phase AC or DC	
supply voltage at AC		
minimum rated value	100 V	
 maximum rated value 	230 V	
• initial value	85 V	
• full-scale value	264 V	
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	47 63 Hz	
input current		
 at rated input voltage 100 V 	0.63 A	
at rated input voltage 230 V	0.31 A	
current limitation of inrush current at 25 °C maximum	34 A	
I2t value maximum	1.2 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	22.2 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	25 mV	
voltage peak		
• maximum	300 mV	
• typical	20 mV	

display version for normal operation	Green LED for output voltage OK	
behavior of the output voltage when switching on	Overshoot of Vout approx. 5 %	
response delay maximum	0.6 s	
voltage increase time of the output voltage		
typical	90 ms	
output current	30 1113	
•	4.2.4	
• rated value	1.3 A	
rated range	0 1.3 A; +60 +70 °C: Derating 0.8%/K; at +70 °C lout rated 1.2 A	
supplied active power typical	30 W	
short-term overload current		
at short-circuit during operation typical	3.1 A	
bridging of equipment	Yes; Start-up with single nominal load only	
number of parallel-switched equipment resources for increasing	2	
the power		
efficiency		
efficiency in percent	86 %	
power loss [W]		
at rated output voltage for rated value of the output current typical	4.5 W	
during no-load operation maximum	0.75 W	
closed-loop control		
relative control precision of the output voltage with rapid	0.1 %	
fluctuation of the input voltage by +/- 15% typical relative control precision of the output voltage at load step of	3 %	
resistive load 10/90/10 % typical		
setting time	Ema	
• load step 10 to 90% typical	5 ms	
load step 90 to 10% typical	5 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	
• typical	1.4 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	0.4 mA	
· ·		
protection class IP EMC	IP20	
standard	F. V. T-7-0-0 Ct	
• for emitted interference	EN 55022 Class B	
 for mains harmonics limitation 	not applicable	
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; cURus-Recognized (UL 60950, CSA C22.2 No. 60950), File E151273, NEC class 2	
CSA approval	(acc. to UL 1310) Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus-Recognized (UL 60950, CSA C22.2 No. 60950), File E151273, NEC class 2 (acc. to UL 1310)	
	Yes	
 EAC approval 		
EAC approvalNEC Class 2	Yes; according to UL1310, File E151273	
NEC Class 2	Yes; according to UL1310, File E151273	
NEC Class 2 type of certification		
NEC Class 2 type of certification CB-certificate	Yes	
NEC Class 2 type of certification		

• 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) 	Yes	
 French marine classification society (BV) 	No	
 Det Norske Veritas (DNV) 	Yes	
Lloyds Register of Shipping (LRS)	No	
standards, specifications, approvals Environmental Product De	claration	
Environmental Product Declaration	Yes	
global warming potential [CO2 eq]		
• total	126.5 kg	
 during manufacturing 	3.2 kg	
during operation	123.1 kg	
after end of life	0.12 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 terminal	
• 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 mm²; -: 2 screw terminals for 0.5 2.5 mm²	
for auxiliary contacts	•	
mechanical data		
width × height × depth of the enclosure	30 × 80 × 100 mm	
installation width × mounting height	30 mm × 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	
DIN-rail mounting	Yes	
 S7 rail mounting 	No	
wall mounting	No	
housing can be lined up	Yes	
net weight	0.17 kg	
accessories		
electrical accessories	Removable spring-type terminal 6EP1971-5BA00	
further information internet links		
internet link		
• to website: Industry Mall	https://mall.industry.siemens.com	
 to web page: selection aid TIA Selection Tool 	https://www.siemens.com/tstcloud	
to web page: power supplies	https://siemens.com/sitop	
to website: CAx-Download-Manager	https://siemens.com/cax	
to website: Industry Online Support	https://support.industry.siemens.com	
additional information		
other information	Specifications at rated input voltage and ambient temperature +25 $^{\circ}\text{C}$ (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
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	10	EC002540
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

Maritime application

Environment













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