SIEMENS

Data sheet 6EP1331-5BA00



SITOP PSU100C/1ACDC/24VDC/0.6A

SITOP PSU100C 24 V/0.6 A stabilized power supply input: 100-230 V AC (110-300 V DC) output: 24 V DC/0.6 A

nput		
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 	0.28 A	
 at rated input voltage 230 V 	0.18 A	
current limitation of inrush current at 25 °C maximum	28 A	
I2t value maximum	0.7 A ² ·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	
utput		
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	No; -	
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	40 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	1 s	
voltage increase time of the output voltage		
• typical	25 ms	
output current		
rated value	0.6 A	
rated range	0 0.6 A	
supplied active power typical	14 W	
short-term overload current		
 at short-circuit during operation typical 	1 A	
bridging of equipment	No	
efficiency		
efficiency in percent	82 %	
power loss [W]		
at rated output voltage for rated value of the output current typical	2.6 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	3 ms	
load step 90 to 10% typical	3 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	0.7 A	
safety		
galvanic isolation between input and output	Yes	
	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178	
galvanic isolation between input and output		
galvanic isolation between input and output galvanic isolation	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	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 leakage current • maximum	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	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.4 mA	
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FM registration standards, specifications, approvals marine classification	No			
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 Declaration				
Environmental Product Declaration	Yes			
Global Warming Potential [CO2 eq]				
• total	83.8 kg			
during manufacturing	2.4 kg			
during operation	81.3 kg			
after end of life	0.08 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	22.5 × 80 × 100 mm			
installation width × mounting height	22.5 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			
 standard rail mounting 	Yes			
S7 rail mounting	No			
wall mounting	No			
housing can be lined up	Yes			
net weight	0.12 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 website: Industrial communication 	https://siemens.com/industrial-communication			
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 °C (unless			
security information	otherwise specified)			
security information	Siemens provides products and solutions with industrial cybersecurity functions			
occurry information	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	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

For use in hazardous locations

Marine / Shipping

Environment













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