## SIEMENS

## Data sheet

## 6EP1332-5BA00



SITOP PSU100C/1ACDC/24VDC/2.5A

SITOP PSU100C 24 V/2.5 A stabilized power supply input: 120-230 V AC (110-300 V DC) output: 24 V DC/2.5 A

lype of the power supply network1-phase AC or DCsupply voltage at AC100 V• minimum rated value200 V• minimum rated value200 V• initial value264 V• initial value264 V• full-scale value264 V• ortisizate value of the output current in the event of power falue minimum23 × Vin rated, 1.3 ms• overotlage overofad capability23 × Vin rated, 1.3 ms• overofad conduction of the mains buffering41 vin = 230 V• overofad conduction of the mains buffering5000 Hz• overofad conduction of nucleation of the mains buffering5000 Hz• overofad conduction of nucleation of nucle	input			
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I2t value maximum       2.4 A <sup>2</sup> ·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       24 V         output voltage adjustable       Yes; via potentiometer         adjustable output voltage       22 26.4 V         relative overall tolerance of the voltage       0.1 %         on slow fluctuation of input voltage       0.1 %         on slow fluctuation of of mol ouding       0.2 %         residual ripple       200 mV         • maximum       200 mV         • typical       300 mV	<ul> <li>at rated input voltage 230 V</li> </ul>	0.67 A		
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adjustable output voltage22.2 26.4 Vrelative overall tolerance of the voltage3 %relative control precision of the output voltage• on slow fluctuation of input voltage0.1 %• on slow fluctuation of ohm loading0.2 %residual ripple• maximum200 mV• typical55 mVvoltage peak• maximum300 mV	output voltage adjustable	Yes; via potentiometer		
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residual ripple     200 mV       • maximum     200 mV       • typical     55 mV       voltage peak     300 mV       • maximum     300 mV				
• maximum     200 mV       • typical     55 mV       voltage peak     300 mV       • maximum     300 mV				
voltage peak • maximum 300 mV		200 mV		
voltage peak ● maximum 300 mV	● typical	55 mV		
• typical 50 mV	• maximum	300 mV		
	● typical	50 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	0.7 s		
voltage increase time of the output voltage			
• typical	100 ms		
output current			
rated value	2.5 A		
rated range	0 2.5 A; +60 +70 °C: Derating 1.6%/K; at +70 °C lout rated 2.1 A		
supplied active power typical	60 W		
bridging of equipment	Yes; Start-up with single nominal load only		
number of parallel-switched equipment resources for increasing the power	2		
efficiency			
efficiency in percent	87 %		
power loss [W]			
<ul> <li>at rated output voltage for rated value of the output current typical</li> </ul>	9 W		
<ul> <li>during no-load operation maximum</li> </ul>	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 resistive load 10/90/10 % typical	3 %		
setting time			
<ul> <li>load step 10 to 90% typical</li> </ul>	4 ms		
<ul> <li>load step 90 to 10% typical</li> </ul>	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		
● typical	3 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	IP20		
EMC			
standard			
<ul> <li>for emitted interference</li> </ul>	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 (acc. to UL 1310)		
CSA 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 (acc. to UL 1310)		
<ul> <li>EAC approval</li> </ul>	Yes		
NEC Class 2	Yes; according to UL1310, File E151273		
type of certification			
CB-certificate	Yes		
	165		
MTBF at 40 °C	2 881 014 h		
MTBF at 40 °C standards, specifications, approvals hazardous environments			
standards, specifications, approvals hazardous environments			
standards, specifications, approvals hazardous environments certificate of suitability	2 881 014 h		

<ul> <li>ULhazloc approval</li> </ul>	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	250.5 kg		
<ul> <li>during manufacturing</li> </ul>	4.2 kg		
during operation	246.2 kg		
after end of life	0.15 kg		
ambient conditions			
ambient temperature			
during operation	-20 +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: Removable screw terminal, each for 1 x 0.5 2.5 mm <sup>2</sup>		
• at output	+: 1 screw terminal for 0.5 2.5 mm <sup>2</sup> ; -: 2 screw terminals for 0.5 2.5 mm <sup>2</sup>		
• for auxiliary contacts			
mechanical data			
width × height × depth of the enclosure	45 × 80 × 100 mm		
installation width × mounting height	45 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		
<ul> <li>standard rail mounting</li> </ul>	Yes		
S7 rail mounting	No		
wall mounting	No		
housing can be lined up	Yes		
net weight	0.22 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 °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	9	EC002540	
	ETIM	8	EC002540	
	ETIM	7	EC002540	
	IDEA	4	4130	
	UNSPSC	15	39-12-10-04	
Approvals Certificates				
General Product Approval				

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