SIEMENS

Data sheet 6EP1331-1LD01



SITOP PSU100D/1AC/24VDC/2.2A

PSU100D 24 V/2.2 A stabilized power supply input: 100-240 V AC output: 24 V DC/2.2 A

input	
type of the power supply network	1-phase AC
supply voltage at AC	
minimum rated value	100 V
maximum rated value	240 V
• initial value	90 V
• full-scale value	264 V
wide range input	Yes
overvoltage overload capability	1.25 × Vin rated, 500 ms
buffering time for rated value of the output current in the event of power failure minimum	12 ms
operating condition of the mains buffering	at Vin = 115/230 V
line frequency	50/60 Hz
line frequency	47 63 Hz
input current	
 at rated input voltage 100 V 	1.2 A
at rated input voltage 240 V	0.7 A
current limitation of inrush current at 25 °C maximum	45 A
I2t value maximum	2 A²·s
fuse protection type	T3.15AL250V (internal)
fuse protection type in the feeder	Recommended miniature circuit breaker: from 16 A characteristic B, from 20 A characteristic B (for North America)
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	21.6 26.4 V
relative overall tolerance of the voltage	1 %
relative control precision of the output voltage	
on slow fluctuation of input voltage	0.5 %
on slow fluctuation of ohm loading	0.5 %
voltage peak	
• maximum	150 mV
display version for normal operation	Green LED for 24 V OK
behavior of the output voltage when switching on	Overshoot of Vout < 10 %
response delay maximum	1s
voltage increase time of the output voltage	
• maximum	30 ms

output current		
• rated value	2.2 A	
rated range	0 2.2 A; +50 +70 °C: Derating 2.0%/K	
supplied active power typical	50 W	
bridging of equipment	No	
efficiency		
efficiency in percent	88 %	
power loss [W]		
at rated output voltage for rated value of the output	7.1 W	
current typical		
closed-loop control		
relative control precision of the output voltage load step of	10 %	
resistive load 50/100/50 % typical		
setting time	4 ===	
• load step 50 to 100% typical	4 ms	
• load step 100 to 50% typical	4 ms	
protection and monitoring	.00.01/	
design of the overvoltage protection	< 33.6 V	
property of the output short-circuit proof	Yes Flootrania abutdown automatia restart	
design of short-circuit protection	Electronic shutdown, automatic restart	
response value current limitation	2.42 3.85 A	
enduring short circuit current RMS value	F. A.	
• typical	5 A	
safety	Von	
galvanic isolation between input and output	Yes	
galvanic isolation	Safety extra low output voltage Vout according to EN 62368-1	
operating resource protection class	Class I	
leakage current	0.5 mA	
maximum standard	0.5 IIIA	
• for emitted interference	EN 55032 Class B	
for mains harmonics limitation	IEC 61000-3-2	
for interference immunity	EN 55035	
standards, specifications, approvals	LIV 00000	
certificate of suitability		
CE marking	Yes	
UL approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus (UL	
o de approvar	62368-1, CSA C22.2 NO 62368-1-14), File E151273	
CSA approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus (UL	
	62368-1, CSA C22.2 NO 62368-1-14), File E151273	
UKCA marking	Yes	
EAC approval	No 	
• NEC Class 2	No	
type of certification	V - D 044000004	
BIS OR and if and a	Yes; R-611003204	
CB-certificate ATDE + 05 %2	Yes	
MTBF at 25 °C	700 000 h; according to SR-332, 100% full load (24 V, 2.2 A), input voltage: 115 V / 230 V AC	
standards, specifications, approvals hazardous environments		
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	No	
Marine classification association		
American Bureau of Shipping Europe Ltd. (ABS)	No	
French marine classification society (BV)	No	
 Det Norske Veritas (DNV) 	No	

 Lloyds Register of Shipping (LRS) 	No				
standards, specifications, approvals Environmental Product De					
Environmental Product Declaration	Yes				
Global Warming Potential [CO2 eq]					
• total	225.7 kg				
during manufacturing	3.6 kg				
during operation	222.1 kg				
after end of life	0.05 kg				
ambient conditions					
ambient temperature					
during operation	-25 +70 °C; with natural conv	vection: The device is not	recommended to be		
O special	placed on low thermal conductive				
during transport	-40 +85 °C				
during storage	-40 +85 °C				
relative humidity with condensation according to IEC 60068-2-38 maximum	20 90% without condensation	1			
connection method					
type of electrical connection	screw terminal				
• at input	L, N, PE: 1 screw terminal each	n for 0.75 2 mm² single-	core/finely stranded		
• at output	+, -: 1 screw terminal each for 0).75 2 mm²			
• for auxiliary contacts	-				
mechanical data					
width × height × depth of the enclosure	82 × 29 × 99 mm				
fastening method	Wall mounting	Wall mounting			
standard rail mounting	No				
S7 rail mounting	No				
wall mounting	Yes				
net weight	0.18 kg	0.18 kg			
further information internet links					
internet link					
• to website: Industry Mall	https://mall.industry.siemens.com				
 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				
to website: Industry Online Support	https://support.industry.siemens.com				
additional information					
other information	Specifications at rated input vol	tage and ambient tempera	ature +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		
			Ciassilication		
	eClass	14	27-04-07-01		
	eClass eClass	14 12			
	eClass	12	27-04-07-01 27-04-07-01		
	eClass eClass	12 9.1	27-04-07-01 27-04-07-01 27-04-07-01		
	eClass	12	27-04-07-01 27-04-07-01		

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

Manufacturer Declaration







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