SIEMENS

Data sheet 6EP1334-1LD01



SITOP PSU100D/1AC/24VDC/14.6A

PSU100D 24 V/14.6 A stabilized power supply input: 100-120 V/200-240 V AC output: 24 V DC/14.6 A

put		
type of the power supply network	1-phase AC	
supply voltage 1 at AC	100 120 V	
supply voltage 2 at AC	200 240 V	
input voltage 1 at AC	90 132 V	
input voltage 2 at AC	180 264 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	20 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	6.8 A	
• at rated input voltage 240 V	3.4 A	
current limitation of inrush current at 25 °C maximum	60 A	
12t value maximum	4.5 A ² ·s	
fuse protection type	T10AH250V (internal)	
fuse protection type in the feeder	Recommended miniature circuit breaker: from 16 A characteristic B, from 20 A characteristic B (for North America)	
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	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	200 mV	
display version for normal operation	Green LED for 24 V OK	
type of signal at output	-	
behavior of the output voltage when switching on	Overshoot of Vout < 10 %	
response delay maximum	1.5 s	
voltage increase time of the output voltage		

output current	
• rated value	14.6 A
rated range	0 14.6 A; +50 +70 °C: Derating 2.0%/K
supplied active power typical	350 W
bridging of equipment	No
efficiency	
efficiency in percent	87 %
power loss [W]	
at rated output voltage for rated value of the output	46.8 W
current typical	10.0 11
closed-loop control	
relative control precision of the output voltage load step of	10 %
resistive load 50/100/50 % typical	
setting time	
 load step 50 to 100% typical 	20 ms
load step 100 to 50% typical	20 ms
protection and monitoring	
design of the overvoltage protection	< 33.6 V
property of the output short-circuit proof	Yes
design of short-circuit protection	Electronic shutdown, automatic restart
response value current limitation	16.06 25.55 A
enduring short circuit current RMS value	
• typical	9 A
safety	
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	
• maximum	0.75 mA
EMC	
standard	
• for emitted interference	EN 55032 Class B
 for mains harmonics limitation 	No
• for interference immunity	EN 55035
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 (UL
	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
LIVOA LI	62368-1, CSA C22.2 NO 62368-1-14), File E151273
UKCA marking	Yes
EAC approval	No
• NEC Class 2	No
type of certification	
• BIS	Yes; R-611003204
CB-certificate	Yes
MTBF at 25 °C	700 000 h; according to SR-332, 100% full load (24 V, 14.6 A), input voltage: 115 V / 230 V AC
standards enocifications approvals barardous environments	113 V / 230 V AC
standards, specifications, approvals hazardous environments	
certificate of suitability	No
• IECEX	No No
ATEX Ill barles energyel	No No
ULhazloc approval CCAve Class 1 Division 2	No
• cCSAus, Class 1, Division 2	No 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	claration			
Environmental Product Declaration	Yes			
Global Warming Potential [CO2 eq]				
• total	1 480.9 kg			
during manufacturing	16.6 kg			
during operation	1 463.7 kg			
after end of life	0.25 kg			
ambient conditions				
ambient temperature				
during operation	-25 +70; with forced convecti to be placed on low thermal cor			
during transport	-40 +85			
during storage	-40 +85			
relative humidity with condensation according to IEC 60068-2-38 maximum	20 90% without condensation	n		
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	+, -: 3 screw terminals each for	0.75 2 mm²		
for auxiliary contacts	-			
mechanical data				
width × height × depth of the enclosure	115 × 30 × 215 mm			
fastening method	Wall mounting			
standard rail mounting	No			
• S7 rail mounting	No			
wall mounting	Yes			
net weight	0.84 kg			
further information internet links	0.04 Ng			
internet link				
to website: Industry Mall	https://mall.industry.siemens.co	am		
to website. Industry Mail to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud			
to web page: power suppliesto website: CAx-Download-Manager	https://siemens.com/sitop			
<u> </u>		https://siemens.com/cax		
to website: Industry Online Support additional information	https://support.industry.siemens	<u>s.com</u>		
	Considerations at rated input val	to so and ambient towns	inture 125 °C (unless	
other information	Specifications at rated input vol otherwise specified)	tage and ambient temper	ature +25 C (unless	
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	
	o Class			
	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

Environment

Manufacturer Declaration







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