SIEMENS

Data sheet 6EP1321-1LD01



SITOP PSU100D/1AC/12VDC/3A

PSU100D 12 V/3 A Stabilized power supply input: 100-240 V AC output: 12 V DC/3 A

voltage curve at output output voltage at DC rated value output voltage • at output 1 at DC rated value 12 V output voltage adjustable • at output 1 at DC rated value 12 V output voltage adjustable adjustable output voltage 10.8 13.2 V relative overall tolerance of the voltage • on slow fluctuation of input voltage • on slow fluctuation of ohm loading voltage peak • maximum display version for normal operation behavior of the output voltage when switching on response delay maximum 1 s voltage increase time of the output voltage 12 V Controlled, isolated DC voltage	nput	
• minimum rated value 240 V • maximum rated value 240 V • full-scale 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 16 ms poerating condition of the mains buffering at Vin = 115/230 V line frequency 70 600 Hz line frequency 47 m. 63 Hz input current input current 4 rated input voltage 100 V • at rated input voltage 240 V 0.5 A current limitation of inrush current at 25 °C maximum 45 A lize protection type 73.15AL250V (internal) fuse protection type in the feeder Recommended miniature circuit breaker: from 16 A characteristic B, from 20 A characteristic B (for North America) voltupt voltage at DC rated value 12 V output voltage at DC rated value 12 V output voltage adjustable Yes; via potentiometer adjustable output voltage 10 % e at output 1 at DC rated value 12 V on slow fluctuation of input	type of the power supply network	1-phase AC
• maximum rated value • initial value • full-scale value • full-scale value voevoltage overload capability buffering time for rated value of the output current in the event of power failure minimum operating condition of the mains buffering line frequency line frequency ilne frequency • at rated input voltage 100 V • at rated input voltage 240 V current limitation of inrush current at 25 °C maximum 1.5 A°s current limitation of inrush current at 25 °C maximum 1.5 A°s current limitation of inrush current at 25 °C maximum 1.5 A°s current lought voltage 100 V • at rated input voltage 240 V current limitation of inrush current at 25 °C maximum 1.5 A°s current limitation of inrush	supply voltage at AC	
initial value initial value in lessale value 264 V vide range input verovoltage overfoad capability 258 Vin rated, 500 ms buffering time for rated value of the output current in the event of power failure minimum operating condition of the mains buffering 3 time frequency 3 5060 Hz line frequency 47 63 Hz input current interest and input voltage 100 V 3 that rated input voltage 240 V current limitation of inrush current at 25 °C maximum 45 A 12t value maximum 1.5 A²-s fuse protection type in the feeder response delaye at output 1 at DC rated value output voltage at DC rated value 22 V output voltage at DC rated value output voltage adjustable 47 yes; via potentiometer adjustable output voltage 10 se on slow fluctuation of input voltage 10 ns ow fluctuation of of pout voltage 10 ns ow fluctuation of or pout voltage 10 ns ow fluctuation of pout voltage 10 ns ow fluctuation of pout voltage 10 ns ow fluctuation of or pout voltage 10 ns ow fluctuation of or pout voltage 10 ns ow fluctuation of pout voltage 11 ns ow fluctuation of pout voltage 12 voltage peak 12 ns owerall tolerance of the voltage 13 ns owerall pout voltage 14 ns owerall tolerance of the voltage 15 ns owerall pout voltage 16 ns owerall pout voltage 17 ns owerall pout voltage 18 ns owerall pout voltage 19 ns owerall pout voltage 10	minimum rated value	100 V
• full-scale value 264 V wide range input Yes overvoltage overload capability 12.5 × Vin rated, 500 ms buffering time for rated value of the output current in the event of power failure minimum 16 ms perating condition of the mains buffering at Vin = 115/230 V line frequency 50/60 Hz line frequency 50/60 Hz line frequency 47 63 Hz input current 0.55 A • at rated input voltage 100 V 0.5 A • at rated input voltage 240 V 0.5 A current limitation of inush current at 25 °C maximum 45 A 12t value maximum 15 A² s fuse protection type in the feeder 73.15AL250V (internal) fuse protection type in the feeder Recommended miniature circuit breaker: from 16 A characteristic B, from 20 A characteristic B (for North America) voltupt voltage curve at output Controlled, isolated DC voltage • at output 1 at DC rated value 12 V output voltage adjustable Yes; via potentiometer • adjustable output voltage 19 % • on slow fluctuation of input voltage 0.5 % • on slow fl	maximum rated value	240 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 16 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 0.85 A e at rated input voltage 240 V 0.5 A current limitation of inrush current at 25 °C maximum 45 A 12t value maximum 1.5 A²s fuse protection type 73.15AL250V (internal) fuse protection type in the feeder Recommended miniature circuit breaker: from 16 A characteristic B, from 20 A characteristic B (for North America) voltupt voltage at DC rated value 12 V output voltage at DC rated value 12 V output voltage adjustable Yes; via potentiometer adjustable output voltage 1 % e not slow fluctuation of input voltage 0.5 % e on slow fluctuation of input voltage 0.5 % e on slow fluctuation of mput voltage 0.5 % e on slow fluctuation of input voltage <t< td=""><td>initial value</td><td>90 V</td></t<>	initial value	90 V
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fuse protection type in the feeder Recommended miniature circuit breaker: from 16 A characteristic B, from 20 A characteristic B (for North America) ***Total Controlled, isolated DC voltage** ***Post output voltage at DC rated value	current limitation of inrush current at 25 °C maximum	45 A
Recommended miniature circuit breaker: from 16 A characteristic B, from 20 A characteristic B (for North America) ***utput** **voltage curve at output** **voltage at DC rated value** **voltage at DC rated value** **voltage adjustable at DC rated value** **voltage adjustable adjustable adjustable adjustable adjustable adjustable at 1.8 13.2 V **relative overall tolerance of the voltage adjustable are on slow fluctuation of input voltage about voltage about put voltage when switching on about put voltage when switching on about put voltage increase time of the output voltage about	I2t value maximum	1.5 A²·s
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on slow fluctuation of ohm loading on slow fluctuation of ohm loading voltage peak		0.5 %
voltage peak	·	
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display version for normal operation Green LED for 12 V OK behavior of the output voltage when switching on response delay maximum 1 s voltage increase time of the output voltage		120 mV
behavior of the output voltage when switching on Overshoot of Vout < 10 % response delay maximum 1 s voltage increase time of the output voltage		
response delay maximum 1 s voltage increase time of the output voltage	• • •	
voltage increase time of the output voltage	· · · · · · · · · · · · · · · · · · ·	
	·	
	maximum	30 ms

output current	
• rated value	3 A
rated range	0 3 A; +50 +70 °C: Derating 2.0%/K
supplied active power typical	35 W
bridging of equipment	No
efficiency	
efficiency in percent	86 %
power loss [W]	
at rated output voltage for rated value of the output	5.7 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	
load step 50 to 100% typical	4 ms
load step 100 to 50% typical	4 ms
protection and monitoring	
design of the overvoltage protection	< 17.4 V
property of the output short-circuit proof	Yes
design of short-circuit protection	Electronic shutdown, automatic restart
response value current limitation	3.3 5.25 A
enduring short circuit current RMS value	
• typical	4 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	0.5 mA
EMC	
standard	
 for emitted interference 	EN 55032 Class B
 for mains harmonics limitation 	IEC 61000-3-2
 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
a LIKCA marking	62368-1, CSA C22.2 NO 62368-1-14), File E151273
UKCA marking FAC approval	Yes
EAC approval NEC Class 3	No No
NEC Class 2 tupo of contification	No
type of certification	Voc. D 611002204
• BIS	Yes; R-611003204
	Voc
CB-certificate MTDE et 25 °C	Yes 700,000 his according to SD 222, 1009/ full lead (12.1/ 2.A.) input veltage: 115
CB-certificate MTBF at 25 °C	Yes 700 000 h; according to SR-332, 100% full load (12 V, 3 A), input voltage: 115 V / 230 V AC
	700 000 h; according to SR-332, 100% full load (12 V, 3 A), input voltage: 115
MTBF at 25 °C standards, specifications, approvals hazardous environments	700 000 h; according to SR-332, 100% full load (12 V, 3 A), input voltage: 115
MTBF at 25 °C	700 000 h; according to SR-332, 100% full load (12 V, 3 A), input voltage: 115
MTBF at 25 °C standards, specifications, approvals hazardous environments certificate of suitability • IECEx	700 000 h; according to SR-332, 100% full load (12 V, 3 A), input voltage: 115 V / 230 V AC
MTBF at 25 °C standards, specifications, approvals hazardous environments certificate of suitability • IECEX • ATEX	700 000 h; according to SR-332, 100% full load (12 V, 3 A), input voltage: 115 V / 230 V AC
MTBF at 25 °C standards, specifications, approvals hazardous environments certificate of suitability • IECEx • ATEX • ULhazloc approval	700 000 h; according to SR-332, 100% full load (12 V, 3 A), input voltage: 115 V / 230 V AC No No No
MTBF at 25 °C standards, specifications, approvals hazardous environments certificate of suitability • IECEx • ATEX • ULhazloc approval • cCSAus, Class 1, Division 2	700 000 h; according to SR-332, 100% full load (12 V, 3 A), input voltage: 115 V / 230 V AC No No No No
MTBF at 25 °C standards, specifications, approvals hazardous environments certificate of suitability • IECEx • ATEX • ULhazloc approval • cCSAus, Class 1, Division 2 • FM registration	700 000 h; according to SR-332, 100% full load (12 V, 3 A), input voltage: 115 V / 230 V AC No No No
MTBF at 25 °C standards, specifications, approvals hazardous environments certificate of suitability • IECEx • ATEX • ULhazloc approval • cCSAus, Class 1, Division 2 • FM registration standards, specifications, approvals marine classification	700 000 h; according to SR-332, 100% full load (12 V, 3 A), input voltage: 115 V / 230 V AC No No No No No No
MTBF at 25 °C standards, specifications, approvals hazardous environments certificate of suitability • IECEx • ATEX • ULhazloc approval • cCSAus, Class 1, Division 2 • FM registration standards, specifications, approvals marine classification shipbuilding approval	700 000 h; according to SR-332, 100% full load (12 V, 3 A), input voltage: 115 V / 230 V AC No No No No
MTBF at 25 °C standards, specifications, approvals hazardous environments certificate of suitability • IECEx • ATEX • ULhazloc approval • cCSAus, Class 1, Division 2 • FM registration standards, specifications, approvals marine classification shipbuilding approval Marine classification association	700 000 h; according to SR-332, 100% full load (12 V, 3 A), input voltage: 115 V / 230 V AC No No No No No No
MTBF at 25 °C standards, specifications, approvals hazardous environments certificate of suitability • IECEx • ATEX • ULhazloc approval • cCSAus, Class 1, Division 2 • FM registration standards, specifications, approvals marine classification shipbuilding approval	700 000 h; according to SR-332, 100% full load (12 V, 3 A), input voltage: 115 V / 230 V AC No No No No No No

Det Norske Veritas (DNV)	No				
Lloyds Register of Shipping (LRS)	No				
standards, specifications, approvals Environmental Product Declaration					
Environmental Product Declaration	Yes				
global warming potential [CO2 eq]					
• total	181.8 kg				
during manufacturing	3.4 kg				
 during operation 	178.3 kg				
after end of life	0.05 kg				
ambient conditions					
ambient temperature					
during operation	-25 +70; with natural convect placed on low thermal conduction				
 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		(6)		
• at input	L, N, PE: 1 screw terminal each	_	-core/tinely stranded		
at output for auxiliary contacts	+, -: 1 screw terminal each for 0	J./3 ∠ mm²			
,	-				
mechanical data width × height × depth of the enclosure	82 × 29 × 99 mm				
fastening method • DIN-rail mounting	Wall mounting No				
S7 rail mounting	No				
wall mounting	Yes				
net weight	0.17 kg				
further information internet links	0.17 kg				
internet link					
to website: Industry Mall	https://mall.industry.siemens.co	om			
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 vol	tage and ambient temper	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		,,	01 17 17		
		Version	Classification		
	eClass	14	27-04-07-01		
	eClass	12	27-04-07-01		

9	27-04-07-01
8	27-04-90-02
7.1	27-04-90-02
6	27-04-90-02
9	EC002540
8	EC002540
7	EC002540
4	4130
15	39-12-10-04
	8 7.1 6 9 8 7 4

Approvals Certificates

General Product Approval

Environment

Manufacturer Declaration







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