SIEMENS

Data sheet 6EP1333-1LD01



SITOP PSU100D/1AC/24VDC/6.25A

PSU100D 24 V/6.25 A stabilized power supply input: 100-120 V/200-240 V AC output: 24 V DC/6.25 A

input	
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	30 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 	3 A
at rated input voltage 240 V	1.6 A
current limitation of inrush current at 25 °C maximum	60 A
I2t value maximum	1.5 A ² ·s
fuse protection type	T4AL250V (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	200 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	0.5 s
voltage increase time of the output voltage	
• maximum	30 ms
output current	

rated value	6.25 A		
• rated range			
	0 6.25 A; +50 +70 °C: Derating 2.0%/K		
supplied active power typical	150 W		
bridging of equipment	No		
efficiency			
efficiency in percent	89 %		
power loss [W]			
 at rated output voltage for rated value of the output current typical 	18 W		
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	< 33.6 V		
property of the output short-circuit proof	Yes		
design of short-circuit protection	Electronic shutdown, automatic restart		
response value current limitation	6.88 10.94 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	0.5 mA		
EMC			
standard			
 for emitted interference 	EN 55032 Class B		
 for mains harmonics limitation 	IEC 61000-3-2 Class A		
 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 62368-1, CSA C22.2 NO 62368-1-14), File E151273		
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UKCA marking	62368-1, CSA C22.2 NO 62368-1-14), File E151273 Yes		
UKCA markingEAC approval	62368-1, CSA C22.2 NO 62368-1-14), File E151273 Yes No		
 UKCA marking EAC approval NEC Class 2 	62368-1, CSA C22.2 NO 62368-1-14), File E151273 Yes		
UKCA markingEAC approval	62368-1, CSA C22.2 NO 62368-1-14), File E151273 Yes No No		
UKCA marking EAC approval NEC Class 2 type of certification	62368-1, CSA C22.2 NO 62368-1-14), File E151273 Yes No		
UKCA marking EAC approval NEC Class 2 type of certification BIS	62368-1, CSA C22.2 NO 62368-1-14), File E151273 Yes No No Yes; R-611003204 Yes		
UKCA marking EAC approval NEC Class 2 type of certification BIS CB-certificate MTBF at 25 °C	62368-1, CSA C22.2 NO 62368-1-14), File E151273 Yes No No Yes; R-611003204		
 UKCA marking EAC approval NEC Class 2 type of certification BIS CB-certificate 	62368-1, CSA C22.2 NO 62368-1-14), File E151273 Yes No No Yes; R-611003204 Yes 700 000 h; according to SR-332, 100% full load (24 V, 6.25 A), input voltage:		
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width × height × depth of the enclosure fastening method • DIN-rail mounting • DIN-rail mounting • Vall	 Lloyds Register of Shipping (LRS) 	No			
Security	standards, specifications, approvals Environmental Product De	claration			
* vital soluting manufacturing	Environmental Product Declaration	Yes			
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adher and of life antiferrand of life antiferrand of life antiferrand consistions arrived temperature builting temperature during transport during transport during transport during transport during storage deletical connection according to IEC 60088-2- 38 maximum connection method Upper of electrical connection directions acrew terminal during transport during to auxiliary contacts acrew terminal during transport during to auxiliary contacts acrew terminal during transport	• total	570.3 kg			
ambient conditions ambient conditions ambient conditions - during pranaport - during pranaport - during storage - during s	 during manufacturing 	7.1 kg			
ambient experture • during preation • during transport • during stranger • during str	 during operation 	563 kg			
ambient temperature • during operation • during straspor • during s	after end of life	0.11 kg			
- during operation - during transport - during storage relative humslety with condensation according to IEC 60088-2- 38 maximum - during transport - during transport - during to storage relative humslety with condensation according to IEC 60088-2- 38 maximum - during description and the storage of electrical connection - of the purity - at output	ambient conditions				
* during transport	ambient temperature				
- 40 + 85. relative trumbility with condensation according to IEC 60088-2- 36 maximum connection method - 20 90% without condensation - 2 at input - 4 at output - 5 or auxiliary contacts - 5 or auxiliary contacts - 7 or auxiliary contacts - 8 or auxiliary contacts - 97 × 30 × 159 mm - 98 mm - 9	during operation				
Telative humidity with condensation according to IEC 60088-2-28 maximum type of electrical connection • at input • at output • for auxiliary contacts mechanical data width + height × depth of the enclosure fastening method • DIN-ral imounting • 77 × 30 × 159 mm An ununting • 78 ral mounting • 78 ral mounting • Ves • ununting • to website: Industry Mall • to web page: power supplies • to website: Industry Mall • to web page: electrical and TIA Selection Tool • to web page: power supplies • to website: Industry Mall • to web page: power supplies • to website: Industry Mall • to web page: cover industry • to website: Industry Online Support additional Information other information other information other information Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified) Security information 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 pretent plants, systems, machines and networks and one of preventing unauthorized access to their plants, systems, machines and networks. In order to pretent plants, systems, machines and networks. In order to pretent plants, systems, machines and networks. In order to pretent plants, systems, machines and networks. In order to pretent plants, systems, machines and networks. In order to pretent plants, systems, machines and networks. In order to pretent plants, systems, machines and networks. In order to pretent plants, systems, machines and networks. In order to pretent one element of such a concept. Classification and organization and components should only be connected to an enterprise network or the internet if and to the extent such a concept. Classification and the machines and networks and components should only be connected to an enterprise network or the internet if and to the extent such a concept. Classification and the latest product v	during transport	-40 + 85	-40 +85		
38 maximum connection method bye of electrical connection	during storage	-40 +85			
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For auxiliary contacts Semechanical data	• at input	L, N, PE: 1 screw terminal each	n for 0.75 2 mm² single	-core/finely stranded	
mechanical data width x height x depth of the enclosure 97 × 30 × 159 mm Wall mounting No • DIN-rail mounting • Sr rail mounting • Wall mounting • Wall mounting • Wall mounting • Sr rail mounting • Wall mounting • W	• at output	+, -: 2 screw terminals each for	0.75 2 mm²		
width × height × depth of the enclosure fastening method • DIN-rail mounting • S7 rail mounting • S8 rail mounting • S9 rail m	 for auxiliary contacts 	-	-		
Fastening method DIN-rall mounting S7 rail mounting No S7 rail mounting Ves net weight to website: Industry Mall to website: Industry Mall to website: Industry Mall to website: CAx-Download-Manager to website: CAx-Download-Manager to website: CAx-Download-Manager to website: Industry Online Support thtps://siemens.com/tstcioud https://siemens.com/tstcioud https://siemens.com/cax to website: Industry Online Support Abditional 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 seuta – denement of seuta – secure products and solutions constitute one element of seuta – security measures that support in security indiplement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of seuta – security measures that an element of seuta – security measures in machines and networks segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity measures (see, fixewalls and/or network segments of continuous development to make them more secure. Siemens strongly recommends that that pate templemented, please visit on the server of continuous development to make them more secure. Si	mechanical data				
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net weight further Information Internet links internet link • to website: Industry Mall • to web page: selection aid TIA Selection Tool • to web page: power supplies • to website: CAx-Download-Manager • to website: Industry Online Support **Intos://islemens.com/sistop *	S7 rail mounting	No			
Internet link • to website: Industry Mall • to web page: selection aid TIA Selection Tool • to web page: power supplies • to website: CAx-Download-Manager • to website: Industry Online Support • to website: Industry Online Support Industry, siemens, com/cax • https://support.industry.siemens.com • security information • Seecurity information • Seecurity information • Seecurity information • Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks against cyber threats, it is necessary to implement—and condinuously maintain—a rollsitus state-of-the-art industrial cybersecurity concept. Suemens 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 one one of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems are responsible for preventing unauthorized access to their plants, systems are responsible for preventing unauthorized access to their plants, systems are responsible for preventing unauthorized access to their plants, systems are responsible for preventing unauthorized access to their plants, systems are responsible for preventing unauthorized access to their plants, systems are responsible for preventing unauthorized access to their plants, systems are responsible on the stems of the second of the second of the second of the second of the seco	wall mounting	Yes			
Internet link • to website: Industry Mall • to web page: selection aid TIA Selection Tool • to web page: power supplies • to website: CAx-Download-Manager • to website: Industry Online Support • to website:	net weight	0.36 kg			
to website: Industry Mall					
to tweb page: selection aid TIA Selection Tool to twebsite: CAx-Download-Manager to website: CAx-Download-Manager to website: Industry Online Support 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. In order to protect plants, order to protect plants, order to protect plants, systems, machines and networks 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 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. Siemen's 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 thest. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7) Classifications Classifications 1	internet link				
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to website: Industry Online Support additional information Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified) security information Security information Security information Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks, and 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					
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ETIM	9	EC002540
ETIM	8	EC002540
ETIM	7	EC002540
IDEA	4	4130
UNSPSC	15	39-12-10-04

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