SIEMENS

Data sheet

Input

6EP1322-1LD00

SITOP PSU100D/1AC/12VDC/8.3A

PSU100D 12 V/8.3 A Stabilized power supply input: 100-240 V AC output: 12 V DC/8,3 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	85 V
full-scale value	264 V
design of input wide range input	Yes
operating condition of the mains buffering	at Vin = 115/230 V
buffering time for rated value of the output current in the event of power failure minimum	15 ms
operating condition of the mains buffering	at Vin = 115/230 V
line frequency	
• 1 rated value	50 Hz
• 2 rated value	60 Hz
line frequency	47 63 Hz
input current	
 at rated input voltage 100 V 	2 A
 at rated input voltage 240 V 	1.1 A
current limitation of inrush current at 25 °C maximum	75 A
l2t value maximum	5.5 A ² ·s
fuse protection type	internal
• in the feeder	Recommended miniature circuit breaker: from 10 A characteristic C or from 16 A characteristic B
Dutput	
voltage curve at output	Controlled, isolated DC voltage
output voltage at DC rated value	12 V
output voltage	
 at output 1 at DC rated value 	12 V
relative overall tolerance of the voltage	2 %
relative control precision of the output voltage	
 on slow fluctuation of input voltage 	0.5 %
 on slow fluctuation of ohm loading 	1 %
residual ripple	
• maximum	100 mV
voltage peak	
• maximum	100 mV
adjustable output voltage	11 14 V
product function output voltage adjustable	Yes
type of output voltage setting	via potentiometer

display version for normal operation	Green LED for 12 V OK
display version for normal operation	Green LED for 12 V OK
behavior of the output voltage when switching on	Overshoot of Vout < 2 %
response delay maximum	1s
voltage increase time of the output voltage	00
maximum	30 ms
output current	0.0.4
rated value	8.3 A
rated range	0 8.3 A; +50 +70 °C: Derating 2.5%/K
supplied active power typical	100 W
product feature	N/
bridging of equipment	Yes
number of parallel-switched equipment resources for increasing the power	2
Efficiency	
efficiency in percent	84 %
power loss [W]	
 at rated output voltage for rated value of the output current typical 	19 W
Closed-loop control	
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	0.5 %
relative control precision of the output voltage load step of resistive load 50/100/50 % typical	5 %
Protection and monitoring	
design of the overvoltage protection	< 17.6 V
response value current limitation typical	9.9 A
property of the output short-circuit proof	Yes
design of short-circuit protection	Electronic shutdown, automatic restart
enduring short circuit current RMS value	
• typical	10 A
display version for overload and short circuit	-
display version for eveneda and enore enout	
Safety	
	Yes
Safety	Yes Safety extra low output voltage Vout according to EN 60950-1
Safety galvanic isolation between input and output	
Safety galvanic isolation between input and output galvanic isolation	Safety extra low output voltage Vout according to EN 60950-1
Safety galvanic isolation between input and output galvanic isolation operating resource protection class	Safety extra low output voltage Vout according to EN 60950-1
Safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current	Safety extra low output voltage Vout according to EN 60950-1 Class I
Safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum	Safety extra low output voltage Vout according to EN 60950-1 Class I 3.5 mA
Safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical	Safety extra low output voltage Vout according to EN 60950-1 Class I 3.5 mA 1 mA
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Safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical protection class IP Approvals certificate of suitability	Safety extra low output voltage Vout according to EN 60950-1 Class I 3.5 mA 1 mA IP20 Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259;
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• DNV GL	No
 Lloyds Register of Shipping (LRS) 	No
 Nippon Kaiji Kyokai (NK) 	No
EMC	
standard	
 for emitted interference 	EN 55022 Class B
 for mains harmonics limitation 	EN 61000-3-2
 for interference immunity 	EN 61000-6-2
environmental conditions	
ambient temperature	
 during operation 	-10 +70 °C; with natural convection
 during transport 	-40 +85 °C
 during storage 	-40 +85 °C
Mechanics	
type of electrical connection	screw-type terminals
● at input	L, N, PE: 1 screw terminal each for 0.3 1.3 mm ² single-core/finely stranded
 at output 	+, -: 2 screw terminals each for 0.3 1.3 mm ²
 for auxiliary contacts 	-
width of the enclosure	97 mm
height of the enclosure	158 mm
depth of the enclosure	38 mm
required spacing	
• top	20 mm
bottom	0 mm
• left	20 mm
• right	20 mm
net weight	0.57 kg
fastening method	Wall mounting
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

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