SIEMENS

Data sheet

Input

6EP1321-1LD00

SITOP PSU100D/1AC/12VDC/3A

********** spare part ******** PSU100D 12 V/3 A stabilized power supply input: 100-240 V AC output: 12 V DC/3 A



type of the newer supply network	1 phase AC
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 	0.75 A
 at rated input voltage 240 V 	0.5 A
current limitation of inrush current at 25 °C maximum	60 A
I2t value maximum	1.2 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

hobayiar of the autout vallage when switching on	Oversheet of Vaut < $2.\%$
behavior of the output voltage when switching on	Overshoot of Vout < 2 % 2.5 s
response delay maximum voltage increase time of the output voltage	2.0.5
	20 ma
maximum	30 ms
output current	2.4
rated value	3 A
rated range	0 3 A; +50 +70 °C: Derating 2.5%/K
supplied active power typical	36 W
product feature	No.
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	6.5 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
● typical	3.6 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	6 A
display version for overload and short circuit	
Safety	
galvanic isolation between input and output	Yes
galvanic isolation	Safety extra low output voltage Vout according to EN 60950-1
operating resource protection class	Class I
leakage current	
• maximum	3.5 mA
• typical	1 mA
protection class IP	IP20
Approvals	
certificate of suitability	
CE marking	Yes
UL approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus (UL 60950-1, CSA C22.2 No. 60950-1), File E151273
CSA approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus (UL 60950-1, CSA C22.2 No. 60950-1), File E151273
• cCSAus, Class 1, Division 2	No
ATEX	No
certificate of suitability	No
IECEX NEC Classe 2	No
NEC Class 2	No
ULhazloc approval EM registration	No
FM registration type of certification CB-certificate	Yes
certificate of suitability	
• EAC approval	Yes
certificate of suitability shipbuilding approval	No
shipbuilding approval	-
Marine classification association	
American Bureau of Shipping Europe Ltd. (ABS)	No
French marine classification society (BV)	No
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 	not applicable
 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 	+, -: 1 screw terminal each for 0.3 1.3 mm ²
 for auxiliary contacts 	
width of the enclosure	97 mm
height of the enclosure	98 mm
depth of the enclosure	38 mm
required spacing	
• top	20 mm
bottom	0 mm
• left	20 mm
● right	20 mm
net weight	0.37 kg
fastening method	Wall mounting
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

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