SIEMENS

Data sheet 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



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 	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

Thritte records	from 16 A characteristic B
Output	
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
behavior of the output voltage when switching on	Overshoot of Vout < 2 %

response delay maximum	2.5 s
voltage increase time of the output voltage • maximum	30 ms
output current	30 1113
• rated value	3 A
rated range	0 3 A; +50 +70 °C: Derating 2.5%/K
supplied active power typical	36 W
product feature	
 bridging of equipment 	Yes
number of parallel-switched equipment resources for	2
increasing the power	
Efficiency	
efficiency in percent	84 %
power loss [W]	0.5.14
 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	0.5 %
fluctuation of the input voltage by +/- 15% typical	
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	0.4
typical display version for everload and short circuit.	6 A -
display version for overload and short circuit	
Safety	V
galvanic isolation between input and output	Yes
galvanic isolation operating resource protection class	Safety extra low output voltage Vout according to EN 60950-1 Class I
leakage current	Oldoo I
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;
• cCSAus, Class 1, Division 2	cURus (UL 60950-1, CSA C22.2 No. 60950-1), File E151273 No
• ATEX	No
certificate of suitability	
• IECEX	No
NEC Class 2	No
 ULhazloc approval 	No
 FM registration 	No
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)	110
	No
• DNV GL	No No
• DNV GL	No No No
	No
DNV GLLloyds Register of Shipping (LRS)	No No

standard	ł
• fo	r

or emitted interference EN 55022 Class B • for mains harmonics limitation not applicable • for interference immunity

EN 61000-6-2

environmental conditions

ambient temperature

-10 ... +70 °C; with natural convection • during operation

 during transport -40 ... +85 °C • during storage -40 ... +85 °C

Mechanics

type of electrical connection

• at input

• at output • for auxiliary contacts

width of the enclosure height of the enclosure depth of the enclosure required spacing

• top bottom left right net weight fastening method

other information

screw-type terminals

L, N, PE: 1 screw terminal each for 0.3 ... 1.3 mm² single-core/finely stranded

+, -: 1 screw terminal each for 0.3 ... 1.3 mm²

97 mm 98 mm 38 mm

20 mm 0 mm 20 mm 20 mm 0.37 kg Wall mounting

Specifications at rated input voltage and ambient temperature +25 °C

(unless otherwise specified)

