SIEMENS

Data sheet 6EP1334-1LD00

SITOP PSU100D/1AC/24VDC/12.5A

PSU100D 24 V/12.5 A Stabilized power supply input: 100-240 V AC output: DC 24 V/12,5 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 	4 A
 at rated input voltage 240 V 	2 A
current limitation of inrush current at 25 °C maximum	60 A
I2t value maximum	1.1 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

	from 16 A characteristic B	
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	
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 	0.5 %	
residual ripple		
maximum	100 mV	
voltage peak		
maximum	100 mV	
adjustable output voltage	22 28 V	
product function output voltage adjustable	Yes	
type of output voltage setting	via potentiometer	
display version for normal operation	Green LED for 24 V OK	
type of signal at output	-	

behavior of the output voltage when switching on	Overshoot of Vout < 2 %
response delay maximum	1 s
voltage increase time of the output voltage	
• maximum	30 ms
output current	
• rated value	12.5 A
• rated range	0 12.5 A; +50 +70 °C: Derating 2.5%/K
supplied active power typical	300 W
product feature	000 VV
•	Yes
bridging of equipment	2
number of parallel-switched equipment resources for increasing the power	2
Efficiency	
efficiency in percent	86 %
power loss [W]	
 at rated output voltage for rated value of the output 	48 W
current typical	
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	5 %
resistive load 50/100/50 % typical	
Protection and monitoring	
design of the overvoltage protection	< 35 V
response value current limitation typical	15 A
property of the output short-circuit proof	Yes
design of short-circuit protection	Electronic shutdown, automatic restart
enduring short circuit current RMS value	4- 4
• typical	15 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	11 20
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;
- cCCAus Class 4 Division C	cURus (UL 60950-1, CSA C22.2 No. 60950-1), File E151273
• cCSAus, Class 1, Division 2	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	
	No
American Bureau of Shipping Europe Ltd. (ABS) Face the restrict 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 	EN 61000-3-2
 for interference immunity 	EN 61000-6-2
environmental conditions	
ambient temperature	
 during operation 	-10 +70 °C; with forced convection (ventilator)
 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 0.5 1.3 mm² single-core/finely stranded
at output	+, -: 2 screw terminals each for 0.5 1.3 mm ²
 for auxiliary contacts 	-
width of the enclosure	105 mm
height of the enclosure	199 mm
depth of the enclosure	41 mm
required spacing	
 top 	20 mm
bottom	0 mm
• left	20 mm
• right	20 mm
net weight	0.81 kg
fastening method	Wall mounting
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

