SIEMENS

Data sheet 6EP1332-1LD00

SITOP PSU100D/1AC/24VDC/3.1A

PSU100D 24 V /3.1 A Stabilized power supply input: 100-240 V AC output: 24 V DC/3.1 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 	1.5 A
 at rated input voltage 240 V 	1 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
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	1 %
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

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display version for normal operation	Green LED for 24 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	
rated value	3.1 A
rated range	0 3.1 A; +50 +70 °C: Derating 2.5%/K
supplied active power typical	75 W
product feature	
bridging of equipment	Yes
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 current typical	12 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	< 35 V
response value current limitation typical	3.7 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;
υς αμφιοναι	cURus (UL 60950-1, CSA C22.2 No. 60950-1), File E197259;
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	
• IECEx	No
• NEC Class 2	No
ULhazloc approval	No
FM registration	No
type of certification CB-certificate	Yes
certificate of suitability	
•	Yes
FAC approval	
EAC approval certificate of suitability shiphuilding approval	
certificate of suitability shipbuilding approval	No -
certificate of suitability shipbuilding approval shipbuilding approval	
certificate of suitability shipbuilding approval shipbuilding approval Marine classification association	No -
certificate of suitability shipbuilding approval shipbuilding approval	

• 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 mm² 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	128 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)

