SIEMENS

Data sheet 6EP1332-1LD10

SITOP PSU100D/1AC/24VDC/4.1A

********** spare part ******** PSU100D 24 V/4.1 A stabilized power supply input: 100-240 V AC output: 24 V DC/4.1 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 	2 A
• at rated input voltage 240 V	1.1 A
current limitation of inrush current at 25 °C maximum	75 A
I2t value maximum	4 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
display version for normal operation	Green LED for 24 V OK

hehavior of the output voltage when switching on	Overshoot of Vout < 2 %
behavior of the output voltage when switching on	Overshoot of Vout < 2 %
response delay maximum	1s
voltage increase time of the output voltage	
• maximum	30 ms
output current	
• rated value	4.1 A
rated range	0 4.1 A; +50 +70 °C: Derating 2.5%/K
supplied active power typical	100 W
product feature	
bridging of equipment	Yes
number of parallel-switched equipment resources for increasing the power	2
Efficiency	
	86 %
efficiency in percent	00 /0
power loss [W]	46.10/
 at rated output voltage for rated value of the output current typical 	16 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	< 35 V
• typical	4.9 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	
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
CSA approval	60950-1, CSA C22.2 No. 60950-1), File E151273 Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus (UL
• cCSA approval • cCSAus, Class 1, Division 2	60950-1, CSA C22.2 No. 60950-1), File E151273
ATEX	No
certificate of suitability	110
IECEx	No
NEC Class 2	No
	No
ULhazloc approval FM registration	
FM registration type of certification CR certificate	No Yes
type of certification CB-certificate	160
certificate of suitability	Yes
EAC approval certificate of suitability shiphuilding approval	
certificate of suitability shipbuilding approval	No
shipbuilding approval	-
Marine classification association	N ₂
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 	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	+, -: 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	0.5 kg	
fastening method	Wall mounting	
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)	

