SIEMENS

Data sheet 6EP1333-1LD00

SITOP PSU100D/1AC/24VDC/6.2A

PSU100D 24 V/6,2 A Stabilized power supply input: 100-240 V AC output: 24 V DC/6.2 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 	3.1 A
at rated input voltage 240 V	2 A
current limitation of inrush current at 25 °C maximum	75 A
I2t value maximum	6.5 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

MINISTER AND	Croon LED for 24 V OV
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	1 s
voltage increase time of the output voltage	
• maximum	30 ms
output current	
rated value	6.2 A
rated range	0 6.2 A; +50 +70 °C: Derating 2.5%/K
supplied active power typical	150 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 	24 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	7.4 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	16 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	010001
maximum	3.5 mA
• typical	1 mA
protection class IP	IP20
·	IF20
Approvals	
certificate of suitability	
CE marking	Yes
-	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259;
CE marking	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 Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259;
CE markingUL approvalCSA 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 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
 CE marking UL approval CSA approval cCSAus, Class 1, Division 2 	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 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 No
 CE marking UL approval CSA approval cCSAus, Class 1, Division 2 ATEX 	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 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
 CE marking UL approval CSA approval cCSAus, Class 1, Division 2 ATEX certificate of suitability 	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 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 No No
CE marking UL approval CSA approval cCSAus, Class 1, Division 2 ATEX certificate of suitability IECEx	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 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 No No
CE marking UL approval CSA approval cCSAus, Class 1, Division 2 ATEX certificate of suitability IECEx NEC Class 2	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 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 No No No
CE marking UL approval CSA approval CCSAus, Class 1, Division 2 ATEX Certificate of suitability IECEx NEC Class 2 ULhazloc 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 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 No No No
 CE marking UL approval CSA approval cCSAus, Class 1, Division 2 ATEX certificate of suitability IECEx NEC Class 2 ULhazloc approval FM registration 	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 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 No No No No No
CE marking UL approval CSA approval CCSAus, Class 1, Division 2 ATEX Certificate of suitability IECEx NEC Class 2 ULhazloc approval FM registration type of certification CB-certificate	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 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 No No No
CE marking UL approval CSA approval CCSAus, Class 1, Division 2 ATEX certificate of suitability IECEx NEC Class 2 ULhazloc approval FM registration type of certification CB-certificate certificate of suitability	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 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 No No No No Yes
CE marking UL approval CSA approval CCSAus, Class 1, Division 2 ATEX certificate of suitability IECEX NEC Class 2 ULhazloc approval FM registration type of certification CB-certificate certificate of suitability EAC 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 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 No No No Yes Yes
CE marking UL approval CSA approval CCSAus, Class 1, Division 2 ATEX Certificate of suitability IECEx NEC Class 2 ULhazloc approval FM registration type of certification CB-certificate certificate of suitability EAC approval certificate of suitability shipbuilding 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 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 No No No No Yes
CE marking UL approval CSA approval CCSAus, Class 1, Division 2 ATEX Certificate of suitability IECEx NEC Class 2 ULhazloc approval FM registration type of certification CB-certificate certificate of suitability EAC approval certificate of suitability shipbuilding approval shipbuilding 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 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 No No No Yes Yes
CE marking UL approval CSA approval CCSAus, Class 1, Division 2 ATEX certificate of suitability IECEx NEC Class 2 ULhazloc approval FM registration type of certification CB-certificate certificate of suitability EAC approval certificate of suitability shipbuilding approval shipbuilding approval Marine classification association	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 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 No No No No Yes Yes No -
CE marking UL approval CSA approval CCSAus, Class 1, Division 2 ATEX Certificate of suitability IECEx NEC Class 2 ULhazloc approval FM registration type of certification CB-certificate certificate of suitability EAC approval certificate of suitability shipbuilding approval shipbuilding 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 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 No No No No Yes Yes

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 	-
 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	178 mm
depth of the enclosure	38 mm
required spacing	
• top	20 mm
bottom	0 mm
● left	20 mm
• right	20 mm
net weight	0.55 kg
fastening method	Wall mounting
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

