## SIEMENS

## Data sheet

Input

## 6EP1322-1LD00

## SITOP PSU100D/1AC/12VDC/8.3A

PSU100D 12 V/8.3 A Stabilized power supply input: 100-240 V AC output: 12 V DC/8,3 A



Input	
type of the power supply network	1-phase AC
supply voltage at AC	
minimum rated value	100 V
<ul> <li>maximum rated value</li> </ul>	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	
<ul> <li>at rated input voltage 100 V</li> </ul>	2 A
<ul> <li>at rated input voltage 240 V</li> </ul>	1.1 A
current limitation of inrush current at 25 °C maximum	75 A
l2t value maximum	5.5 A <sup>2</sup> ·s
fuse protection type	internal
• in the feeder	Recommended miniature circuit breaker: from 10 A characteristic C or from 16 A characteristic B
Dutput	
voltage curve at output	Controlled, isolated DC voltage
output voltage at DC rated value	12 V
output voltage	
<ul> <li>at output 1 at DC rated value</li> </ul>	12 V
relative overall tolerance of the voltage	2 %
relative control precision of the output voltage	
<ul> <li>on slow fluctuation of input voltage</li> </ul>	0.5 %
<ul> <li>on slow fluctuation of ohm loading</li> </ul>	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
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	1s
voltage increase time of the output voltage	00
maximum	30 ms
output current	0.0.4
rated value	8.3 A
rated range	0 8.3 A; +50 +70 °C: Derating 2.5%/K
supplied active power typical	100 W
product feature	N/
bridging of equipment	Yes
number of parallel-switched equipment resources for increasing the power	2
Efficiency	
efficiency in percent	84 %
power loss [W]	
<ul> <li>at rated output voltage for rated value of the output current typical</li> </ul>	19 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	< 17.6 V
response value current limitation typical	9.9 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	-
display version for eveneda and enore enout	
Safety	
	Yes
Safety	Yes Safety extra low output voltage Vout according to EN 60950-1
Safety galvanic isolation between input and output	
Safety galvanic isolation between input and output galvanic isolation	Safety extra low output voltage Vout according to EN 60950-1
Safety galvanic isolation between input and output galvanic isolation operating resource protection class	Safety extra low output voltage Vout according to EN 60950-1
Safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current	Safety extra low output voltage Vout according to EN 60950-1 Class I
Safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum	Safety extra low output voltage Vout according to EN 60950-1 Class I 3.5 mA
Safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical	Safety extra low output voltage Vout according to EN 60950-1 Class I 3.5 mA 1 mA
Safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical protection class IP	Safety extra low output voltage Vout according to EN 60950-1 Class I 3.5 mA 1 mA
Safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical protection class IP Approvals	Safety extra low output voltage Vout according to EN 60950-1 Class I 3.5 mA 1 mA
Safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical protection class IP Approvals certificate of suitability	Safety extra low output voltage Vout according to EN 60950-1 Class I 3.5 mA 1 mA IP20 Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259;
Safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical protection class IP Approvals certificate of suitability • CE marking	Safety extra low output voltage Vout according to EN 60950-1         Class I         3.5 mA         1 mA         IP20         Yes         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;
Safety         galvanic isolation between input and output         galvanic isolation         operating resource protection class         leakage current         • maximum         • typical         protection class IP         Approvals         certificate of suitability         • CE marking         • UL approval	Safety extra low output voltage Vout according to EN 60950-1         Class I         3.5 mA         1 mA         IP20         Yes         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         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
Safety         galvanic isolation between input and output         galvanic isolation         operating resource protection class         leakage current         • maximum         • typical         protection class IP         Approvals         certificate of suitability         • CE marking         • UL approval         • CSA approval         • cCSAus, Class 1, Division 2	Safety extra low output voltage Vout according to EN 60950-1         Class I         3.5 mA         1 mA         IP20         Yes         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         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
Safety         galvanic isolation between input and output         galvanic isolation         operating resource protection class         leakage current         • maximum         • typical         protection class IP         Approvals         certificate of suitability         • CE marking         • UL approval         • CSA approval         • CSAus, Class 1, Division 2         • ATEX	Safety extra low output voltage Vout according to EN 60950-1         Class I         3.5 mA         1 mA         IP20         Yes         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         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
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Safety         galvanic isolation between input and output         galvanic isolation         operating resource protection class         leakage current         • maximum         • typical         protection class IP         Approvals         certificate of suitability         • CE marking         • UL approval         • CSA approval         • cCSAus, Class 1, Division 2         • ATEX         certificate of suitability         • IECEx	Safety extra low output voltage Vout according to EN 60950-1         Class I         3.5 mA         1 mA         IP20         Yes         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         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
Safety         galvanic isolation between input and output         galvanic isolation         operating resource protection class         leakage current         • maximum         • typical         protection class IP         Approvals         certificate of suitability         • CE marking         • UL approval         • CSA approval         • cCSAus, Class 1, Division 2         • ATEX         certificate of suitability         • IECEx         • NEC Class 2	Safety extra low output voltage Vout according to EN 60950-1         Class I         3.5 mA         1 mA         IP20         Yes         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         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
Safety         galvanic isolation between input and output         galvanic isolation         operating resource protection class         leakage current         • maximum         • typical         protection class IP         Approvals         certificate of suitability         • CE marking         • UL approval         • CSA approval         • cCSAus, Class 1, Division 2         • ATEX         certificate of suitability         • IECEx         • NEC Class 2         • ULhazloc approval	Safety extra low output voltage Vout according to EN 60950-1         Class I         3.5 mA         1 mA         IP20         Yes         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         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
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Safety         galvanic isolation between input and output         galvanic isolation         operating resource protection class         leakage current         • maximum         • typical         protection class IP         Approvals         certificate of suitability         • 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	Safety extra low output voltage Vout according to EN 60950-1         Class I         3.5 mA         1 mA         IP20         Yes         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         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
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Safety         galvanic isolation between input and output         galvanic isolation         operating resource protection class         leakage current         • maximum         • typical         protection class IP         Approvals         certificate of suitability         • CE marking         • UL approval         • CSA approval         • cCSAus, Class 1, Division 2         • ATEX         certificate of suitability         • IECEx         • NEC Class 2         • UL hazloc approval         • FM registration         type of certificate of suitability         • EAC approval         certificate of suitability shipbuilding approval	Safety extra low output voltage Vout according to EN 60950-1         Class I         3.5 mA         1 mA         IP20         Yes         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         Yes         Yes         Yes         Yes

• DNV GL	No
<ul> <li>Lloyds Register of Shipping (LRS)</li> </ul>	No
<ul> <li>Nippon Kaiji Kyokai (NK)</li> </ul>	No
EMC	
standard	
<ul> <li>for emitted interference</li> </ul>	EN 55022 Class B
<ul> <li>for mains harmonics limitation</li> </ul>	EN 61000-3-2
<ul> <li>for interference immunity</li> </ul>	EN 61000-6-2
environmental conditions	
ambient temperature	
<ul> <li>during operation</li> </ul>	-10 +70 °C; with natural convection
<ul> <li>during transport</li> </ul>	-40 +85 °C
<ul> <li>during storage</li> </ul>	-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 mm <sup>2</sup> single-core/finely stranded
<ul> <li>at output</li> </ul>	+, -: 2 screw terminals each for 0.3 1.3 mm <sup>2</sup>
<ul> <li>for auxiliary contacts</li> </ul>	-
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	0.57 kg
fastening method	Wall mounting
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

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