## **SIEMENS**

Data sheet 6EP1332-1LD10

SITOP PSU100D/1AC/24VDC/4.1A

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	
<ul> <li>at rated input voltage 100 V</li> </ul>	2 A
at rated input voltage 240 V	1.1 A
current limitation of inrush current at 25 °C maximum	75 A
12t value maximum	4 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
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	
<ul> <li>on slow fluctuation of input voltage</li> </ul>	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
display version for normal operation  behavior of the output voltage when switching on	Overshoot of Vout < 2 %
	1 s
response delay maximum voltage increase time of the output voltage	15
maximum	30 ms
output current	30 1118
• 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	100 VV
bridging of equipment	Yes
number of parallel-switched equipment resources for	2
increasing the power	2
Efficiency	
efficiency in percent	86 %
power loss [W]	
<ul> <li>at rated output voltage for rated value of the output current typical</li> </ul>	16 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	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	-
display version for overload and short circuit  Safety	
	Yes
Safety galvanic isolation between input and output galvanic isolation	
Safety galvanic isolation between input and output	Yes
Safety galvanic isolation between input and output galvanic isolation	Yes Safety extra low output voltage Vout according to EN 60950-1
galvanic isolation between input and output galvanic isolation operating resource protection class	Yes Safety extra low output voltage Vout according to EN 60950-1
galvanic isolation between input and output galvanic isolation operating resource protection class leakage current  • maximum • typical	Yes Safety extra low output voltage Vout according to EN 60950-1 Class I  3.5 mA 1 mA
galvanic isolation between input and output galvanic isolation operating resource protection class leakage current  • maximum • typical protection class IP	Yes Safety extra low output voltage Vout according to EN 60950-1 Class I  3.5 mA
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DNV GL	No
<ul> <li>Lloyds Register of Shipping (LRS)</li> </ul>	No
Nippon Kaiji Kyokai (NK)	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
at output	+, -: 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
<ul><li>bottom</li></ul>	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)

