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			
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	30 ms		
• 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 in percent	86 %		
efficiency in percent power loss [W]	00 76		
at rated output voltage for rated value of the output	12 W		
current typical			
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	5 %		
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		
	O-f-tt Ittttttt		
galvanic isolation	Safety extra low output voltage Vout according to EN 60950-1		
operating resource protection class	Safety extra low output voltage Vout according to EN 60950-1 Class I		
operating resource protection class leakage current			
operating resource protection class leakage current • maximum	Class I		
operating resource protection class leakage current	Class I 3.5 mA		
operating resource protection class leakage current	Class I 3.5 mA 1 mA		
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for emitted interference
for mains harmonics limitation
for interference immunity

EN 55022 Class B EN 61000-3-2 EN 61000-6-2

environmental conditions

ambient temperature

• during operation -10 ... +70 °C; with natural convection

during transport
 during storage
 -40 ... +85 °C

Mechanics

type of electrical connection

at input

at output for auxiliary contacts

width of the enclosure height of the enclosure depth of the enclosure required spacing

topbottomleft

right
 net weight
 fastening method
 other information

screw-type terminals

L, N, PE: 1 screw terminal each for 0.3 ... 1.3 mm² single-core/finely

stranded

+, -: 1 screw terminal each for 0.3 ... 1.3 mm²

97 mm 128 mm 38 mm

20 mm 0 mm 20 mm 20 mm 0.37 kg Wall mounting

Specifications at rated input voltage and ambient temperature +25 °C

(unless otherwise specified)

