SIEMENS

Data sheet 6EP1332-1LB00



SITOP PSU100L/1AC/24VDC/2.5A

SITOP PSU100L 24 V/2.5 A Stabilized power supply input: 120/230 V AC, output: DC 24 V/2,5 A

nput	
type of the power supply network	1-phase AC
supply voltage at AC	
initial value	Set by means of selector switch on the device
supply voltage	
• 1 at AC rated value	120 V
2 at AC rated value	230 V
input voltage	
• 1 at AC	93 132 V
• 2 at AC	187 264 V
design of input wide range input	No
overvoltage overload capability	2.3 × Vin rated, 1.3 ms
operating condition of the mains buffering	at Vin = 93/187 V
buffering time for rated value of the output current in the event of power failure minimum	20 ms
operating condition of the mains buffering	at Vin = 93/187 V
line frequency	
• 1 rated value	50 Hz
• 2 rated value	60 Hz
line frequency	47 63 Hz
input current	
 at rated input voltage 120 V 	1.1 A
 at rated input voltage 230 V 	0.65 A
current limitation of inrush current at 25 °C maximum	27 A
duration of inrush current limiting at 25 °C	
• typical	3 ms
I2t value maximum	0.3 A²·s
fuse protection type	T 2 A/250 V (not accessible)
• in the feeder	Recommended miniature circuit breaker: from 3 A characteristic C
Dutput	
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	3 %
relative control precision of the output voltage	
on slow fluctuation of input voltage	0.1 %
on slow fluctuation of ohm loading	0.5 %
residual ripple	
• maximum	150 mV

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• typical	10 mV
voltage peak	
• maximum	240 mV
• typical	50 mV
adjustable output voltage	22.8 26.4 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 approx. 4 %
response delay maximum	1.5 s
voltage increase time of the output voltage	
• typical	150 ms
output current	
rated value	2.5 A
rated range	0 2.5 A; +45 +60 °C: Derating 2%/K
supplied active power typical	60 W
product feature	
 bridging of equipment 	Yes
number of parallel-switched equipment resources for increasing	2
the power	
Efficiency	
efficiency in percent	85 %
power loss [W]	
 at rated output voltage for rated value of the output 	9 W
current typical	
Closed-loop control	
relative control precision of the output voltage with rapid	0.3 %
fluctuation of the input voltage by +/- 15% typical	
relative control precision of the output voltage at load step of resistive load 10/90/10 % typical	2 %
•	
setting time	0.5 ms
	U.5 ms
• load step 10 to 90% typical	
• load step 90 to 10% typical	0.7 ms
● load step 90 to 10% typical Protection and monitoring	0.7 ms
load step 90 to 10% typical Protection and monitoring design of the overvoltage protection	0.7 ms
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load step 90 to 10% typical Protection and monitoring design of the overvoltage protection typical property of the output short-circuit proof design of short-circuit protection enduring short circuit current RMS value	0.7 ms <a "="" href="https://doi.org/10.1001/j.jub/10.2001/j.j</td></tr><tr><td>load step 90 to 10% typical Protection and monitoring design of the overvoltage protection typical property of the output short-circuit proof design of short-circuit protection enduring short circuit current RMS value typical</td><td>0.7 ms < 33 V 2.6 A Yes Constant current characteristic 4 A</td></tr><tr><td>load step 90 to 10% typical Protection and monitoring design of the overvoltage protection typical property of the output short-circuit proof design of short-circuit protection enduring short circuit current RMS value typical display version for overload and short circuit</td><td>0.7 ms < 33 V 2.6 A Yes Constant current characteristic 4 A</td></tr><tr><td>load step 90 to 10% typical Protection and monitoring design of the overvoltage protection typical property of the output short-circuit proof design of short-circuit protection enduring short circuit current RMS value typical display version for overload and short circuit Safety</td><td>0.7 ms < 33 V 2.6 A Yes Constant current characteristic 4 A</td></tr><tr><td>load step 90 to 10% typical Protection and monitoring design of the overvoltage protection typical property of the output short-circuit proof design of short-circuit protection enduring short circuit current RMS value typical display version for overload and short circuit Safety galvanic isolation between input and output</td><td>0.7 ms <a <="" href="https://www.nc.nc/" td="">
load step 90 to 10% typical Protection and monitoring design of the overvoltage protection typical property of the output short-circuit proof design of short-circuit protection enduring short circuit current RMS value typical display version for overload and short circuit Safety galvanic isolation between input and output galvanic resource protection class	 0.7 ms < 33 V 2.6 A Yes Constant current characteristic 4 A Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
load step 90 to 10% typical Protection and monitoring design of the overvoltage protection • typical property of the output short-circuit proof design of short-circuit protection enduring short circuit current RMS value • typical display version for overload and short circuit Safety galvanic isolation between input and output galvanic isolation	 0.7 ms < 33 V 2.6 A Yes Constant current characteristic 4 A Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
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load step 90 to 10% typical Protection and monitoring design of the overvoltage protection • typical property of the output short-circuit proof design of short-circuit protection enduring short circuit current RMS value • typical display version for overload and short circuit Safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current	 0.7 ms < 33 V 2.6 A Yes Constant current characteristic 4 A Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA
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certificate of suitability	
EAC approval	Yes
• •	No
certificate of suitability shipbuilding approval	
shipbuilding approval	
Marine classification association	Al-
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 A
 for mains harmonics limitation 	not applicable
for interference immunity	EN 61000-6-2
environmental conditions	
ambient temperature	
 during operation 	0 60 °C; with natural convection
 during transport 	-40 +85 °C
during storage	-40 +85 °C
environmental category according to IEC 60721	Climate class 3K3, 5 95% no condensation
Mechanics	
type of electrical connection	screw-type terminals
• at input	L, N, PE: 1 screw terminal each for 0.5 2.5 mm² single-core/finely stranded
• at output	+, -: 2 screw terminals each for 0.5 2.5 mm ²
for auxiliary contacts	
width of the enclosure	32.5 mm
height of the enclosure	125 mm
depth of the enclosure	120 mm
required spacing	
• top	50 mm
• bottom	50 mm
● left	0 mm
● right	0 mm
net weight	0.3 kg
product feature of the enclosure housing can be lined up	Yes
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15
MTBF at 40 °C	3 153 082 h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)



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