

Siemens 6EP1336-1LB00 Manual

Brand	Siemens
Product Series	Siemens
Product Type	of the power supply network 1-phase AC or DC

Description

6EP1336-1LB00

SITOP PSU100L/1AC/24VDC/20A

SITOP PSU100L 24 V/20 A Stabilized power supply input: 100-240 V AC output:
24 V DC/20 A

Input

type of the power supply network 1-phase AC or DC

supply voltage at AC

- minimum rated value 100 V
- maximum rated value 240 V

supply voltage

- at DC 100 ... 240 V

input voltage

- 1 at AC 85 ... 264 V
- at DC 88 ... 370 V

design of input wide range input Yes

operating condition of the mains buffering at $V_{in} = 93/187$ 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 $V_{in} = 93/187$ 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 5.55 A
- at rated input voltage 230 V 2.35 A

current limitation of inrush current at 25 °C maximum 45 A

duration of inrush current limiting at 25 °C

- typical 15 ms

I_2t value maximum 3.3 A²·s

fuse protection type T 10 A/250 V (not accessible)

- in the feeder Recommended miniature circuit breaker: from 10 A characteristic C

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

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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 1 %

residual ripple

- maximum 150 mV
- typical 50 mV

voltage peak

- maximum 240 mV
- typical 100 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 No overshoot of Vout (soft start)

response delay maximum 1.5 s

voltage increase time of the output voltage

- typical 20 ms

output current

- rated value 20 A
- rated range 0 ... 20 A; +45 ... +70 °C: Derating 2.5%/K

supplied active power typical 480 W

product feature

- bridging of equipment Yes

number of parallel-switched equipment resources for increasing the power

2

Efficiency

efficiency in percent 92 %

power loss [W]

- at rated output voltage for rated value of the output

current typical

45 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 at load step of

resistive load 10/90/10 % typical

3 %

setting time

- load step 10 to 90% typical 0.7 ms
- load step 90 to 10% typical 6 ms

Protection and monitoring

design of the overvoltage protection < 33 V

- typical 24 A

property of the output short-circuit proof Yes

design of short-circuit protection Constant current characteristic

enduring short circuit current RMS value

- typical 24 A

display version for overload and short circuit -

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Safety

galvanic isolation between input and output Yes

galvanic isolation Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178

operating resource protection class Class I

leakage current

- maximum 3.5 mA
- typical 0.8 mA

protection class IP IP20

Approvals

certificate of suitability

- CE marking Yes
- UL approval Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
- CSA approval Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
- NEC Class 2 No
- EAC approval Yes

type of certification

- BIS Yes; R-41184349
- CB-certificate Yes

certificate of suitability

- IECEx No
- ATEX No
- ULhazloc approval No

- cCSAus, Class 1, Division 2 No

- FM registration No

certificate of suitability shipbuilding approval No

Marine classification association

- American Bureau of Shipping Europe Ltd. (ABS) No
- French marine classification society (BV) No
- Lloyds Register of Shipping (LRS) No

EMC

standard

- for emitted interference EN 55022 Class B
- for mains harmonics limitation EN 61000-3-2
- for interference immunity EN 61000-6-2

environmental conditions

ambient temperature

- during operation -25 ... +70 °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 mm²
- for auxiliary contacts -

width of the enclosure 110 mm

height of the enclosure 125 mm

depth of the enclosure 125 mm

required spacing

- top 50 mm

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- bottom 50 mm
- left 0 mm
- right 0 mm

net weight 1.8 kg

product feature of the enclosure housing can be lined up Yes

fastening method Snaps onto DIN rail EN 60715 35x7.5/15

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