SIEMENS

Data sheet 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	
• initial value	85 V	
• full-scale value	264 V	
supply voltage at DC	100 240 V	
input voltage at DC	88 370 V	
wide range input	Yes	
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	50/60 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	
I2t value maximum	3.3 A²·s	
fuse protection type	T 10 A/250 V (not accessible)	
fuse protection type 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	
output voltage adjustable	Yes; via potentiometer	
adjustable output voltage	22.8 26.4 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	1 %	
residual ripple		
• maximum	150 mV	
• typical	50 mV	
voltage peak		
• maximum	240 mV	

• typical	100 mV	
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	
bridging of equipment	Yes	
number of parallel-switched equipment resources for increasing	2	
the power		
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	0.5 %	
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	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	
property of the output short-circuit proof	Yes	
design of short-circuit protection	Constant current characteristic	
• typical	24 A	
enduring short circuit current RMS value		
enduring short circuit current RMS value • typical	24 A	
	24 A	
• typical	24 A Yes	
• typical safety		
typical safety galvanic isolation between input and output	Yes	
typical safety galvanic isolation between input and output galvanic isolation	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178	
typical safety galvanic isolation between input and output galvanic isolation operating resource protection class	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178	
• typical safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I	
typical safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current maximum	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA	
typical safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current maximum typical	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.8 mA	
typical safety 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 Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.8 mA	
typical safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current maximum typical protection class IP EMC	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.8 mA	
typical safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current maximum typical protection class IP EMC standard	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.8 mA IP20	
typical safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.8 mA IP20 EN 55022 Class B	
typical safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current maximum typical protection class IP EMC standard for emitted interference for mains harmonics limitation	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.8 mA IP20 EN 55022 Class B EN 61000-3-2	
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typical safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical protection class IP EMC standard • for emitted interference • for mains harmonics limitation • for interference immunity standards, specifications, approvals certificate of suitability • CE marking	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.8 mA IP20 EN 55022 Class B EN 61000-3-2 EN 61000-6-2 Yes	
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 cCSAus, Class 1, Division 2 	No
• FM registration	No
standards, specifications, approvals marine classification	
shipbuilding approval	No
Marine classification association	
 American Bureau of Shipping Europe Ltd. (ABS) 	No
 French marine classification society (BV) 	No
 Det Norske Veritas (DNV) 	No
 Lloyds Register of Shipping (LRS) 	No
ambient 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
connection method	
type of electrical connection	screw terminal
• 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	-
mechanical data	
width × height × depth of the enclosure	110 × 125 × 125 mm
installation width × mounting height	110 mm × 225 mm
required spacing	
 top 	50 mm
• bottom	50 mm
• left	0 mm
• right	0 mm
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15
DIN-rail mounting	Yes
• S7 rail mounting	No
wall mounting	No Voca
housing can be lined up	Yes
net weight further information internet links	1.8 kg
internet link	
to website: Industry Mall	https://mall.industrv.siemens.com
to website. Industry Mail to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
to web page: Selection and TIA Selection Tool to web page: power supplies	https://siemens.com/sitop
to web page. power supplies to website: CAx-Download-Manager	https://siemens.com/cax
to website: CAX-Download-Manager to website: Industry Online Support	https://support.industry.siemens.com
additional information	TAPOT CORPORATION OF THE PROPERTY OF THE PROPE
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless
	otherwise specified)
security information	
security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)
Classifications	

	Version	Classification
eClass	14	27-04-07-01
eClass	12	27-04-07-01
eClass	9.1	27-04-07-01
eClass	9	27-04-07-01
eClass	8	27-04-90-02
eClass	7.1	27-04-90-02
eClass	6	27-04-90-02
ETIM	9	EC002540
ETIM	8	EC002540
ETIM	7	EC002540
IDEA	4	4130
UNSPSC	15	39-12-10-04

Approvals Certificates

General Product Approval

Manufacturer Declaration Declaration of Conformity



last modified: 4/4/2025 🖸