## **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	100 240 V
supply voltage at AC maximum rated value	
supply voltage at AC initial value	85 264 V
supply voltage at AC full-scale value	
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 initial value	47 63 Hz
line frequency full-scale value	
input current	
<ul> <li>at rated input voltage 120 V</li> </ul>	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 A <sup>2</sup> ·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 initial value	22.8 V
adjustable output voltage full-scale value	26.4 V
relative overall tolerance of the voltage	3 %
relative control precision of the output voltage	
<ul> <li>on slow fluctuation of input voltage</li> </ul>	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	
	Green LED for 24 V OK	
display version for normal operation		
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	20	
• typical	20 ms	
output current	00.4	
• 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 the power	2	
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		
<ul> <li>load step 10 to 90% typical</li> </ul>	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	
<ul> <li>response value current limitation typical</li> </ul>	24 A	
enduring short circuit current RMS value		
• typical	24 A	
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	
standard		
for emitted interference	EN 55022 Class B	
for mains harmonics limitation	EN 61000-3-2	
<ul> <li>for interference immunity</li> </ul>	EN 61000-6-2	
for interference immunity     standards, specifications, approvals	EN 61000-6-2	
standards, specifications, approvals	EN 61000-6-2	
standards, specifications, approvals certificate of suitability		
standards, specifications, approvals certificate of suitability  • CE marking	Yes	
standards, specifications, approvals  certificate of suitability  • CE marking  • UL approval	Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259	
standards, specifications, approvals certificate of suitability  • CE marking  • UL approval  • CSA approval	Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259	
standards, specifications, approvals certificate of suitability  CE marking UL approval CSA approval EAC approval	Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 Yes	
standards, specifications, approvals certificate of suitability  • CE marking  • UL approval  • CSA approval  • EAC approval  • NEC Class 2	Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259	
standards, specifications, approvals  certificate of suitability  • CE marking  • UL approval  • CSA approval  • EAC approval  • NEC Class 2  type of certification	Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 Yes No	
standards, specifications, approvals certificate of suitability	Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 Yes No Yes; R-41184349	
standards, specifications, approvals  certificate of suitability	Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 Yes No	
standards, specifications, approvals  certificate of suitability	Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 Yes No Yes; R-41184349	
standards, specifications, approvals  certificate of suitability	Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 Yes No Yes; R-41184349 Yes	
standards, specifications, approvals  certificate of suitability  • CE marking  • UL approval  • CSA approval  • EAC approval  • NEC Class 2  type of certification  • BIS  • CB-certificate  standards, specifications, approvals hazardous environments  certificate of suitability  • IECEx	Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 Yes No Yes; R-41184349 Yes	
standards, specifications, approvals  certificate of suitability	Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 Yes No Yes; R-41184349 Yes	
standards, specifications, approvals  certificate of suitability  • CE marking  • UL approval  • CSA approval  • EAC approval  • NEC Class 2  type of certification  • BIS  • CB-certificate  standards, specifications, approvals hazardous environments  certificate of suitability  • IECEx	Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 Yes No Yes; R-41184349 Yes	

• FM registration	No		
standards, specifications, approvals marine classification			
shipbuilding approval	No		
Marine classification association			
<ul> <li>American Bureau of Shipping Europe Ltd. (ABS)</li> </ul>	No		
<ul> <li>French marine classification society (BV)</li> </ul>	No		
<ul> <li>Det Norske Veritas (DNV)</li> </ul>	No		
<ul> <li>Lloyds Register of Shipping (LRS)</li> </ul>	No		
ambient conditions			
ambient temperature			
<ul> <li>during operation</li> </ul>	-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 conde	ensation	
connection method			
type of electrical connection	screw-type terminals		
• at input	L, N, PE: 1 screw terminal each for 0.5	5 2.5 mm² single-	-core/finely stranded
at output	+, -: 2 screw terminals each for 0.5 2	_	,
for auxiliary contacts	-		
mechanical data			
width × height × depth of the enclosure	110 × 125 × 125 mm		
installation width × mounting height	110 × 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	
standard rail mounting	Yes		
• S7 rail mounting	No		
wall mounting	No		
housing can be lined up	Yes		
net weight	1.8 kg		
further information internet links			
internet link			
to web page: selection aid TIA Selection Tool	https://siemens.com/tst		
to website: Industrial communication	http://www.siemens.com/simatic-net		
to website: CAx-Download-Manager	http://www.siemens.com/cax		
additional information	Into In www.sichichs.com/roux	_	
other information	Specifications at rated input voltage ar	nd ambient temper	ature ±25 °C (unless
other information	otherwise specified)	nu ambient tempera	ature +25 C (uriless
security information			
security information  Classifications	Siemens provides products and solutions with industrial security 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 security 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 security measures that may be implemented, please visit https://www.siemens.com/industrialsecurity. 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 Security RSS Feed under https://www.siemens.com/cert. (V4.6)		
Classifications			
		Version	Classification
	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



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