## **SIEMENS**

Data sheet 6EP1334-1LB00



SITOP PSU100L/1AC/24VDC/10A

SITOP PSU100L 24 V/10 A Stabilized power supply input: 120/230 V AC, output: DC 24 V/10 A

nput		
type of the power supply network	1-phase AC	
supply voltage at AC	Set by means of selector switch on the device	
supply voltage	120 V/230 V	
input voltage 1 at AC	93 132 V	
input voltage 2 at AC	187 264 V	
wide range input	No	
overvoltage overload capability	2.3 × Vin rated, 1.3 ms	
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		
at rated input voltage 120 V	4.1 A	
at rated input voltage 230 V	2 A	
current limitation of inrush current at 25 °C maximum	65 A	
duration of inrush current limiting at 25 °C		
• typical	3 ms	
I2t value maximum	3.3 A <sup>2</sup> ·s	
fuse protection type	T 6.3 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		
on slow fluctuation of input voltage	0.1 %	
on slow fluctuation of ohm loading	0.5 %	
residual ripple		
maximum	150 mV	
• typical	50 mV	
voltage peak		
maximum	240 mV	

• typical	150 mV	
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	170 ms	
output current		
rated value	10 A	
rated range	0 10 A; +45 +60 °C: Derating 2%/K	
supplied active power typical	240 W	
bridging of equipment	Yes	
number of parallel-switched equipment resources for increasing the power	2	
efficiency in percent	89 %	
power loss [W]		
<ul> <li>at rated output voltage for rated value of the output current typical</li> </ul>	34 W	
closed-loop control		
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	0.3 %	
relative control precision of the output voltage at load step of	2 %	
resistive load 10/90/10 % typical		
setting time		
• load step 10 to 90% typical	0.5 ms	
load step 90 to 10% typical	0.7 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	
response value current limitation typical	16 A	
enduring short circuit current RMS value		
-		
• typical	12.6 A	
• 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	
• 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	
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 IP20	
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 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	
typical  safety  galvanic isolation between input and output  galvanic isolation  operating resource protection class  leakage current      maximum      typical  protection class IP  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 A	
typical  safety  galvanic isolation between input and output  galvanic isolation  operating resource protection class  leakage current      maximum      typical  protection class IP  standard      for emitted interference     for mains harmonics limitation     for interference immunity	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 A	
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 A	
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 A - EN 61000-6-2	
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 A - EN 61000-6-2	
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 A EN 61000-6-2  Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259	
typical  safety  galvanic isolation between input and output  galvanic isolation  operating resource protection class  leakage current      maximum      typical  protection class IP  standard      for emitted interference      for mains harmonics limitation      for interference immunity  standards, specifications, approvals  certificate of suitability      CE marking      UL approval      CSA approval	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 A - EN 61000-6-2  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	
typical  safety  galvanic isolation between input and output  galvanic isolation  operating resource protection class  leakage current      maximum      typical  protection class IP  standard      for emitted interference      for mains harmonics limitation      for interference immunity  standards, specifications, approvals  certificate of suitability      CE marking      UL approval      CSA approval      EAC approval	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 A - EN 61000-6-2  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 Yes	
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 A - EN 61000-6-2  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 Yes	
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 A EN 61000-6-2  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 Yes No	
<ul> <li>typical</li> <li>safety</li> <li>galvanic isolation between input and output</li> <li>galvanic isolation</li> <li>operating resource protection class</li> <li>leakage current <ul> <li>maximum</li> <li>typical</li> </ul> </li> <li>protection class IP</li> <li>standard</li> <li>for emitted interference</li> <li>for mains harmonics limitation</li> <li>for interference immunity</li> </ul> <li>standards, specifications, approvals</li> <li>certificate of suitability</li> <li>CE marking</li> <li>UL approval</li> <li>CSA approval</li> <li>EAC approval</li> <li>NEC Class 2</li> <li>type of certification</li> <li>BIS</li>	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 A	
• typical  safety  galvanic isolation between input and output  galvanic isolation  operating resource protection class  leakage current  • maximum  • typical  protection class IP  standard  • for emitted interference  • for mains harmonics limitation  • for interference immunity  standards, specifications, approvals  certificate of suitability  • CE marking  • UL approval  • CSA approval  • EAC approval  • NEC Class 2  type of certification  • BIS  • CB-certificate	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 A - EN 61000-6-2  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 Yes No Yes; R-41183539 Yes	
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 A - EN 61000-6-2  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 Yes No Yes; R-41183539 Yes	
• typical  safety  galvanic isolation between input and output  galvanic isolation  operating resource protection class  leakage current  • maximum  • typical  protection class IP  standard  • for emitted interference  • for mains harmonics limitation  • for interference immunity  standards, specifications, approvals  certificate of suitability  • CE marking  • UL approval  • CSA approval  • EAC approval  • NEC Class 2  type of certification  • BIS  • CB-certificate  MTBF at 40 °C  standards, specifications, approvals hazardous environments  certificate of suitability	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 A - EN 61000-6-2  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 Yes No Yes; R-41183539 Yes	
• typical  safety  galvanic isolation between input and output  galvanic isolation  operating resource protection class  leakage current  • maximum  • typical  protection class IP  standard  • for emitted interference  • for mains harmonics limitation  • for interference immunity  standards, specifications, approvals  certificate of suitability  • CE marking  • UL approval  • CSA approval  • EAC approval  • EAC approval  • NEC Class 2  type of certification  • BIS  • CB-certificate  MTBF at 40 °C  standards, specifications, approvals hazardous environments  certificate of suitability  • IECEx	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 A - EN 61000-6-2  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 Yes No  Yes; R-41183539 Yes 2 333 396 h	
• typical  safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical protection class IP standard • for emitted interference • for mains harmonics limitation • for interference immunity  standards, specifications, approvals  certificate of suitability • CE marking • UL approval • CSA approval • EAC approval • NEC Class 2  type of certification • BIS • CB-certificate MTBF at 40 °C  standards, specifications, approvals hazardous environments certificate of suitability • IECEx • ATEX	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 A	
• typical  safety  galvanic isolation between input and output  galvanic isolation  operating resource protection class  leakage current  • maximum  • typical  protection class IP  standard  • for emitted interference  • for mains harmonics limitation  • for interference immunity  standards, specifications, approvals  certificate of suitability  • CE marking  • UL approval  • CSA approval  • EAC approval  • EAC approval  • NEC Class 2  type of certification  • BIS  • CB-certificate  MTBF at 40 °C  standards, specifications, approvals hazardous environments  certificate of suitability  • IECEx	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 A EN 61000-6-2  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 Yes No Yes; R-41183539 Yes 2 333 396 h	

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
standards, specifications, approvals Environmental Product Dec	-
Environmental Product Declaration	Yes
Global Warming Potential [CO2 eq]	
• total	1 083.3 kg
during manufacturing	19.4 kg
during operation	1 063.3 kg
after end of life	0.53 kg
ambient conditions	5.55 kg
ambient temperature	
during operation	0 60 °C; with natural convection
	-40 +85 °C
during transport     during storage	-40 +85 °C
during storage      applicamental category according to IEC 60721	
environmental category according to IEC 60721	Climate class 3K3, 5 95% no condensation
connection method	covery to the description of the second of t
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 <sup>2</sup>
for auxiliary contacts	•
mechanical data	
width × height × depth of the enclosure	70 × 125 × 120 mm
installation width × mounting height	70 × 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	0.75 kg
further information internet links	
internet link	
<ul> <li>to web page: selection aid TIA Selection Tool</li> </ul>	https://siemens.com/tst
<ul> <li>to website: Industrial communication</li> </ul>	http://www.siemens.com/simatic-net
to website: CAx-Download-Manager	http://www.siemens.com/cax
additional information	
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless
socurity information	otherwise specified)
security information	Ciomono providos producto and calutions with industrial and in the first in-
security information	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

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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 Declara-tion

Declaration of Conformity







Environment



last modified:

2/13/2024

