## **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

input		
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	47 63 Hz	
input current		
<ul> <li>at rated input voltage 120 V</li> </ul>	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	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 %	
<ul> <li>on slow fluctuation of ohm loading</li> </ul>	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	Overshoot of Vout approx. 4 %	
voltage increase time of the output voltage	1.0 0	
• typical	170 ms	
output current	1701115	
rated value	10 A	
• rated value  • 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		
efficiency in percent	89 %	
power loss [W]		
at rated output voltage for rated value of the output	34 W	
current typical		
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 resistive load 10/90/10 % typical	2 %	
setting time		
<ul><li>load step 10 to 90% typical</li></ul>	0.5 ms	
<ul> <li>load step 90 to 10% typical</li> </ul>	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	
• typical	16 A	
enduring short circuit current RMS value		
<ul><li>typical</li></ul>	12.6 A	
safety		
	Yes	
safety	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178	
galvanic isolation between input and output galvanic isolation operating resource protection class		
galvanic isolation between input and output galvanic isolation operating resource protection class leakage current	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178  Class I	
galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178  Class I  3.5 mA	
galvanic isolation between input and output galvanic isolation operating resource protection class leakage current  • maximum • typical	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178  Class I  3.5 mA  0.8 mA	
galvanic isolation between input and output galvanic isolation operating resource protection class leakage current	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178  Class I  3.5 mA	
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galvanic isolation between input and output galvanic isolation operating resource protection class leakage current	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	
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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  • UL approval  • CSA approval  • UKCA marking  • EAC approval  • NEC Class 2  type of certification  • BIS  • CB-certificate	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 Yes Yes No  Yes; R-41183539 Yes	
galvanic isolation between input and output galvanic isolation operating resource protection class leakage current	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  Yes  Yes  Yes  Yes  Yes  Yes  No	
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galvanic isolation between input and output galvanic isolation operating resource protection class leakage current	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	

• cCSAus, Class 1, Division 2	No	
FM registration	No	
standards, specifications, approvals marine classification	110	
shipbuilding approval	No	
Marine classification association	110	
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	1	
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		
ambient temperature		
during operation	0 60; with natural convection	
during transport	-40 +85	
during storage	-40 +85	
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 <sup>2</sup>	
for auxiliary contacts		
mechanical data		
width × height × depth of the enclosure	70 × 125 × 120 mm	
installation width × mounting height	70 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	
<ul> <li>S7 rail mounting</li> </ul>	No	
wall mounting	No	
housing can be lined up	Yes	
net weight	0.75 kg	
further information internet links		
internet link		
• to website: Industry Mall	https://mall.industry.siemens.com	
<ul> <li>to web page: selection aid TIA Selection Tool</li> </ul>	https://www.siemens.com/tstcloud	
<ul><li>to web page: power supplies</li></ul>	https://siemens.com/sitop	
• to website: CAx-Download-Manager	https://siemens.com/cax	
to website: Industry Online Support	https://support.industry.siemens.com	
additional information		
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless	
coourity information	otherwise specified)	
security information	Ciomono provideo producto and solutions with industrial subsesses with funding	
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	cybersecurity measures that may be implemented, please visit	

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Classifications

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

**General Product Approval** 

Manufacturer Declara-<u>tion</u>

**Declaration of Con**formity







**General Product Ap**proval

**Environment** 

**BIS CRS** 



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