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 4	47 63 Hz			
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 ² ·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			
	22.8 26.4 V			
	3%			
relative control precision of the output voltage				
	0.1 %			
	0.5 %			
residual ripple				
	150 mV			
• typical	50 mV			
voltage peak				
	240 mV			
	150 mV			
typical				

hehavior of the output voltage when switching on	Overshoot of Vout approv. 4 %		
behavior of the output voltage when switching on response delay maximum	Overshoot of Vout approx. 4 % 1.5 s		
voltage increase time of the output voltage	1.0 5		
	170 ms		
• typical output current	170 ms		
	10.4		
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			
efficiency in percent	89 %		
power loss [W]			
 at rated output voltage for rated value of the output current typical 	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 resistive load 10/90/10 % typical	2 %		
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		
• typical	16 A		
enduring short circuit current RMS value			
• typical	12.6 A		
safety			
	Yes		
safety	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178		
safety galvanic isolation between input and output			
safety galvanic isolation between input and output galvanic isolation	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178		
safety galvanic isolation between input and output galvanic isolation operating resource protection class	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178		
safety 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		
safety 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		
safety 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		
safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical protection class IP	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.8 mA		
safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical protection class IP EMC	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.8 mA		
safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical protection class IP EMC standard	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.8 mA IP20		
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	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.8 mA IP20		
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	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 -		
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	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 -		
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	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 -		
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	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		
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	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		
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	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		
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	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		
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	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		
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	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		
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	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		
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	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 No		
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	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 No		
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		
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 MTBF at 40 °C	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		
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 certificate MTBF at 40 °C standards, specifications, approvals hazardous environments	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 Yes		
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 MTBF at 40 °C standards, specifications, approvals hazardous environments certificate of suitability	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 No Yes; R-41183539 Yes 2 333 396 h		
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 MTBF at 40 °C standards, specifications, approvals hazardous environments certificate of suitability • IECEx	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 No Yes R-41183539 Yes 2 333 396 h		

• 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
standards, specifications, approvals Environmental Product De	claration
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 mm ² 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	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
 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	
• to website: Industry Mall	https://mall.industry.siemens.com
 to web page: selection aid TIA Selection Tool 	https://www.siemens.com/tstcloud
 to web page: power supplies 	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 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

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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 Appr	oval				
СВ	Manufacturer Declara- tion	Declaration of C formity	[™] UK CA	C E EG-Konf.	
General Product Approval	Environment				
<u>BIS CRS</u>	EPD				
last modified:	11/25/2024 🖸				