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 A ² ·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
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	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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• 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 • UL approval • CSA approval • CSA approval • EAC approval • NEC Class 2 type of certification • BIS • CB-certificate standards, specifications, approvals hazardous environments	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 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
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+70 °C; with natural convection +85 °C +85 °C nate class 3K3, 5 95% no condensation w terminal , PE: 1 screw terminal each for 0.5 2.5 mm² single-core/finely stranded 2 screw terminals each for 0.5 2.5 mm² × 125 × 125 mm mm × 225 mm mm mm mps onto DIN rail EN 60715 35x7.5/15
+85 °C +85 °C nate class 3K3, 5 95% no condensation w terminal , PE: 1 screw terminal each for 0.5 2.5 mm² single-core/finely stranded 2 screw terminals each for 0.5 2.5 mm² × 125 × 125 mm mm mm mm mm
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cifications at rated input voltage and ambient temperature +25 °C (unless
rwise specified)
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	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 DeclarationDeclaration of Conformity

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last modified:	6/26/2024	7