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
supply voltage	
• at DC	100 240 V
input voltage	
• 1 at AC	85 264 V
• at DC	88 370 V
design of input wide range input	Yes
operating condition of the mains buffering	at Vin = 93/187 V
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	
1 rated value	50 Hz
2 rated value	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 A²·s
fuse protection type	T 10 A/250 V (not accessible)
• 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
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
adjustable output voltage	22.8 26.4 V
product function output voltage adjustable	Yes
type of output voltage setting	via potentiometer
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
product feature	
bridging of equipment	Yes
number of parallel-switched equipment resources for increasing the power	2
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 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	
load step 10 to 90% typical	0.7 ms
• load step 90 to 10% typical	6 ms
Protection and monitoring	
Protection and monitoring design of the overvoltage protection	< 33 V
	< 33 V 24 A
design of the overvoltage protection	
design of the overvoltage protection • typical	24 A
design of the overvoltage protection • typical property of the output short-circuit proof	24 A Yes
design of the overvoltage protection • typical property of the output short-circuit proof design of short-circuit protection	24 A Yes
design of the overvoltage protection • typical property of the output short-circuit proof design of short-circuit protection enduring short circuit current RMS value	24 A Yes Constant current characteristic
design of the overvoltage protection • typical property of the output short-circuit proof design of short-circuit protection enduring short circuit current RMS value • typical	24 A Yes Constant current characteristic 24 A
design of the overvoltage protection • typical property of the output short-circuit proof design of short-circuit protection enduring short circuit current RMS value • typical display version for overload and short circuit	24 A Yes Constant current characteristic
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design of the overvoltage protection • typical property of the output short-circuit proof design of short-circuit protection enduring short circuit current RMS value • typical display version for overload and short circuit Safety galvanic isolation between input and output	24 A Yes Constant current characteristic 24 A - Yes
design of the overvoltage protection • typical property of the output short-circuit proof design of short-circuit protection enduring short circuit current RMS value • typical display version for overload and short circuit Safety galvanic isolation between input and output galvanic isolation	24 A Yes Constant current characteristic 24 A - Yes Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
design of the overvoltage protection • typical property of the output short-circuit proof design of short-circuit protection enduring short circuit current RMS value • typical display version for overload and short circuit Safety galvanic isolation between input and output galvanic isolation operating resource protection class	24 A Yes Constant current characteristic 24 A - Yes Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
design of the overvoltage protection • typical property of the output short-circuit proof design of short-circuit protection enduring short circuit current RMS value • typical display version for overload and short circuit Safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current	24 A Yes Constant current characteristic 24 A - Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I
design of the overvoltage protection • typical property of the output short-circuit proof design of short-circuit protection enduring short circuit current RMS value • typical display version for overload and short circuit Safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum	24 A Yes Constant current characteristic 24 A - Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA
design of the overvoltage protection • typical property of the output short-circuit proof design of short-circuit protection enduring short circuit current RMS value • typical display version for overload and short circuit Safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical	24 A Yes Constant current characteristic 24 A - Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.8 mA
design of the overvoltage protection • typical property of the output short-circuit proof design of short-circuit protection enduring short circuit current RMS value • typical display version for overload and short circuit Safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical protection class IP	24 A Yes Constant current characteristic 24 A - Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.8 mA
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design of the overvoltage protection • typical property of the output short-circuit proof design of short-circuit protection enduring short circuit current RMS value • typical display version for overload and short circuit Safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical protection class IP Approvals certificate of suitability	24 A Yes Constant current characteristic 24 A - Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.8 mA IP20
design of the overvoltage protection • typical property of the output short-circuit proof design of short-circuit protection enduring short circuit current RMS value • typical display version for overload and short circuit Safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical protection class IP Approvals certificate of suitability • CE marking	24 A Yes Constant current characteristic 24 A - Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.8 mA IP20 Yes
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EAC approval	Yes
certificate of suitability shipbuilding approval	No
shipbuilding approval	-
Marine classification association	
 American Bureau of Shipping Europe Ltd. (ABS) 	No
 French marine classification society (BV) 	No
DNV GL	No
 Lloyds Register of Shipping (LRS) 	No
 Nippon Kaiji Kyokai (NK) 	No
EMC	
standard	
• for emitted interference	EN 55022 Class B
 for mains harmonics limitation 	EN 61000-3-2
• for interference immunity	EN 61000-6-2
environmental conditions	
ambient temperature	
 during operation 	-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 condensation
Mechanics	
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 mm²
for auxiliary contacts	-
width of the enclosure	110 mm
height of the enclosure	125 mm
depth of the enclosure	125 mm
required spacing	
• top	50 mm
• bottom	50 mm
left	0 mm
• right	0 mm
net weight	1.8 kg
product feature of the enclosure housing can be lined up	Yes
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15
other information	Specifications at rated input voltage and ambient temperature +25 $^{\circ}$ C (unless otherwise specified)



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