## **SIEMENS**

Data sheet 6EP1337-3BA00

## SITOP PSU100M/1AC/24VDC/40A

SITOP PSU100M 40 A Stabilized power supply Input: 120/230 V AC Output: 24 V DC/40 A !!!!Phased-out product!!!! Successor: 6EP3337-8SB00-0AY0 \*Ex approval no longer available\*



Input	
type of the power supply network	1-phase AC
supply voltage at AC	
• initial value	Set by means of wire jumper on the device; starting from Vin > 95/190 V
supply voltage	
<ul> <li>1 at AC rated value</li> </ul>	120 V
2 at AC rated value	230 V
input voltage	
• 1 at AC	85 132 V
• 2 at AC	176 264 V
design of input wide range input	No
overvoltage overload capability	2.3 × Vin rated, 1.3 ms
operating condition of the mains buffering	at Vin = 230 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 = 230 V
line frequency	
1 rated value	50 Hz
• 2 rated value	60 Hz
line frequency	47 63 Hz
input current	
<ul> <li>at rated input voltage 120 V</li> </ul>	15 A
<ul> <li>at rated input voltage 230 V</li> </ul>	8 A
current limitation of inrush current at 25 °C maximum	125 A
12t value maximum	26 A <sup>2</sup> ·s
fuse protection type	Yes
• in the feeder	Recommended miniature circuit breaker at 1-phase operation: 20 A characteristic C; required at 2-phase operation: circuit breaker 2-pole connected or circuit breaker 3RV2421-4BA10 (120 V) or 3RV2411-1JA10 (230 V)
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	
<ul> <li>on slow fluctuation of input voltage</li> </ul>	0.1 %
<ul> <li>on slow fluctuation of ohm loading</li> </ul>	0.1 %
residual ripple	

<ul><li>maximum</li></ul>	100 mV
	60 mV
typical     voltage peak	00 1117
maximum	200 mV
• typical	120 mV
adjustable output voltage	24 28.8 V
product function output voltage adjustable	Yes
type of output voltage setting	via potentiometer
	Green LED for 24 V OK
display version for normal operation	
type of signal at output	via signaling module (6EP1961-3BA10)  Overshoot of Vout approx. 3 %
behavior of the output voltage when switching on	
response delay maximum	0.1 s
voltage increase time of the output voltage	50 mg
• typical	50 ms
output current	40. A
• rated value	40 A
rated range  augustical active power typical	0 40 A; +60 +70 °C: Derating 2.5%/K
supplied active power typical	960 W
short-term overload current	120 A
at short-circuit during operation typical  duration of everlanding capability for excess current	120 A
duration of overloading capability for excess current	25 mg
at short-circuit during operation	25 ms
constant overload current	46 A
on short-circuiting during the start-up typical	46 A
product feature	Vaca autitabable abayastaristia
bridging of equipment  Turbor of parallel switched againment recourses for	Yes; switchable characteristic
number of parallel-switched equipment resources for increasing the power	2
Efficiency	
efficiency in percent	88 %
power loss [W]	
at rated output voltage for rated value of the output current typical	131 W
Closed-loop control	
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	1 %
	0.0%
relative control precision of the output voltage load step of resistive load 50/100/50 % typical	2 %
	2 %
resistive load 50/100/50 % typical	2 ms
resistive load 50/100/50 % typical setting time	
resistive load 50/100/50 % typical setting time • load step 50 to 100% typical	2 ms
resistive load 50/100/50 % typical setting time • load step 50 to 100% typical • load step 100 to 50% typical	2 ms
resistive load 50/100/50 % typical setting time     load step 50 to 100% typical     load step 100 to 50% typical setting time	2 ms 2 ms
resistive load 50/100/50 % typical setting time     load step 50 to 100% typical     load step 100 to 50% typical setting time     maximum	2 ms 2 ms
resistive load 50/100/50 % typical setting time     load step 50 to 100% typical     load step 100 to 50% typical setting time     maximum  Protection and monitoring	2 ms 2 ms 5 ms
resistive load 50/100/50 % typical setting time	2 ms 2 ms 5 ms
resistive load 50/100/50 % typical setting time	2 ms 2 ms 5 ms < 35 V 46 A
resistive load 50/100/50 % typical setting time     load step 50 to 100% typical     load step 100 to 50% typical setting time     maximum  Protection and monitoring design of the overvoltage protection response value current limitation typical property of the output short-circuit proof	2 ms 2 ms 5 ms  < 35 V 46 A Yes Alternatively, constant current characteristic approx. 46 A or latching
resistive load 50/100/50 % typical setting time	2 ms 2 ms 5 ms  < 35 V 46 A Yes Alternatively, constant current characteristic approx. 46 A or latching
resistive load 50/100/50 % typical setting time	2 ms 2 ms 5 ms  < 35 V 46 A Yes Alternatively, constant current characteristic approx. 46 A or latching shutdown
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resistive load 50/100/50 % typical setting time	2 ms 2 ms 5 ms  46 A Yes Alternatively, constant current characteristic approx. 46 A or latching shutdown  46 A LED yellow for "overload", LED red for "latching shutdown"
resistive load 50/100/50 % typical setting time	2 ms 2 ms 5 ms  46 A Yes Alternatively, constant current characteristic approx. 46 A or latching shutdown  46 A LED yellow for "overload", LED red for "latching shutdown"
resistive load 50/100/50 % typical setting time	2 ms 2 ms 5 ms  < 35 V 46 A Yes Alternatively, constant current characteristic approx. 46 A or latching shutdown  46 A LED yellow for "overload", LED red for "latching shutdown"  Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
resistive load 50/100/50 % typical setting time	2 ms 2 ms 5 ms  < 35 V 46 A Yes Alternatively, constant current characteristic approx. 46 A or latching shutdown  46 A LED yellow for "overload", LED red for "latching shutdown"  Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
resistive load 50/100/50 % typical setting time	2 ms 2 ms 5 ms  46 A Yes Alternatively, constant current characteristic approx. 46 A or latching shutdown  46 A LED yellow for "overload", LED red for "latching shutdown"  Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I
resistive load 50/100/50 % typical setting time	2 ms 2 ms 5 ms  435 V 46 A Yes Alternatively, constant current characteristic approx. 46 A or latching shutdown  46 A LED yellow for "overload", LED red for "latching shutdown"  Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I  3.5 mA
resistive load 50/100/50 % typical setting time	2 ms 2 ms 5 ms  46 A Yes Alternatively, constant current characteristic approx. 46 A or latching shutdown  46 A LED yellow for "overload", LED red for "latching shutdown"  Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I  3.5 mA 0.4 mA

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certificate of suitability	
CE marking	Yes
<ul> <li>UL approval</li> </ul>	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
<ul> <li>CSA approval</li> </ul>	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
<ul> <li>cCSAus, Class 1, Division 2</li> </ul>	No
• ATEX	No
certificate of suitability	
• IECEx	No
NEC Class 2	No
<ul> <li>ULhazloc approval</li> </ul>	No
<ul> <li>FM registration</li> </ul>	No
type of certification CB-certificate	No
certificate of suitability	
<ul> <li>EAC approval</li> </ul>	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
<ul> <li>Lloyds Register of Shipping (LRS)</li> </ul>	No
Nippon Kaiji Kyokai (NK)	No
EMC	
standard	
for emitted interference	EN 55022 Class B
for mains harmonics limitation	-
for interference immunity	EN 61000-6-2
environmental conditions	2.00.00002
ambient temperature	
during operation	0 70 °C; with natural convection
during operation     during transport	-40 +85 °C
during transport     during storage	-40 +85 °C
environmental category according to IEC 60721	Climate class 3K3, 5 95% no condensation
	Climate class 3N3, 3 93 /6 No Condensation
Mechanics	agravi ti in a tamain ala
type of electrical connection	screw-type terminals
• at input	L, N, PE: 1 screw terminal each for 0.2 4 mm <sup>2</sup> single-core/finely stranded
at output	+, -: 2 screw terminals each for 0.5 10 mm <sup>2</sup>
for auxiliary contacts	-
width of the enclosure	240 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	2.9 kg
product feature of the enclosure housing can be lined up	Yes
fastening method	Snaps onto DIN rail EN 60715 35x15
electrical accessories	Buffer module, signaling module
MTBF at 40 °C	540 249 h
other information	Specifications at rated input voltage and ambient temperature +25 °C
	(unless otherwise specified)

