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 !!!!product phase-out!!!! successor: 6EP3337-8SB00-0AY0



type of the power supply network	1-phase AC	
supply voltage at AC	Set by means of wire jumper on the device; starting from Vin > 95/190 V	
supply voltage	120 V/230 V	
input voltage 1 at AC	85 132 V	
input voltage 2 at AC	176 264 V	
wide range input	No 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 = 230 V	
line frequency	50/60 Hz	
line frequency	47 63 Hz	
input current		
at rated input voltage 120 V	15 A	
at rated input voltage 230 V	8 A	
current limitation of inrush current at 25 °C maximum	125 A	
12t value maximum	26 A²-s	
fuse protection type	Yes	
fuse protection type 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 (23 V)	
utput		
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	24 28.8 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	0.1 %	
residual ripple		
• maximum	100 mV	
• typical	60 mV	
voltage peak		
• maximum	200 mV	
• typical	120 mV	
display version for normal operation	Green LED for 24 V OK	

	via signaling module (6EP1961-3BA10)	
type of signal at output behavior of the output voltage when switching on	Overshoot of Vout approx. 3 %	
response delay maximum	Oversition of vout approx. 3 %	
voltage increase time of the output voltage	0.15	
typical	50 ms	
output current		
• rated value	40 A	
• rated range	0 40 A; +60 +70 °C: Derating 2.5%/K	
supplied active power typical	960 W	
short-term overload current	420 A	
at short-circuit during operation typical duration of overloading capability for excess current	120 A	
at short-circuit during operation	25 ma	
constant overload current	25 ms	
on short-circuiting during the start-up typical	46 A	
bridging of equipment	Yes; switchable characteristic	
number of parallel-switched equipment resources for increasing	2	
the power	2	
efficiency		
efficiency in percent	88 %	
power loss [W]		
at rated output voltage for rated value of the output	131 W	
current typical		
closed-loop control	4.07	
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	1 %	
relative control precision of the output voltage load step of	2 %	
resistive load 50/100/50 % typical		
setting time		
● load step 50 to 100% typical	2 ms	
● load step 100 to 50% typical	2 ms	
setting time		
maximum	5 ms	
protection and monitoring		
The state of the s		
design of the overvoltage protection	< 35 V	
design of the overvoltage protection property of the output short-circuit proof	Yes	
design of the overvoltage protection		
design of the overvoltage protection property of the output short-circuit proof design of short-circuit protection • typical	Yes	
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 Regulatory Compliance Mark (RCM) 	Yes	
NEC Class 2	No	
SEMI F47	Yes	
type of certification		
CB-certificate	No	
MTBF at 40 °C	540 249 h	
standards, specifications, approvals hazardous environments		
certificate of suitability		
• IECEx	No	
• ATEX	No	
ULhazloc approval	No	
• 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	
	No	
French marine classification society (BV) Det Norske Verites (DNV)	No	
Det Norske Veritas (DNV) Lloyde Register of Shipping (LDS)		
Lloyds Register of Shipping (LRS)	No	
standards, specifications, approvals Environmental Product Dec		
Environmental Product Declaration	Yes	
global warming potential [CO2 eq]		
● total	4 146.1 kg	
during manufacturing	45.7 kg	
during operation	4 099 kg	
after end of life	0.65 kg	
ambient conditions		
ambient temperature		
 during operation 	0 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	
connection method		
type of electrical connection	screw terminal	
• at input	L, N, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded	
• at output	+, -: 2 screw terminals each for 0.5 10 mm²	
for auxiliary contacts	-	
mechanical data		
width × height × depth of the enclosure	240 × 125 × 125 mm	
	240 mm × 225 mm	
installation width × mounting height	240 111111 ^ 225 111111	
required spacing	F0 mm	
• top	50 mm	
• bottom	50 mm	
• left	0 mm	
• right	0 mm	
fastening method	Snaps onto DIN rail EN 60715 35x15	
DIN-rail mounting	Yes	
 S7 rail mounting 	No	
wall mounting	No	
housing can be lined up	Yes	
net weight	2.9 kg	
accessories		
electrical accessories	Buffer module, signaling module	
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 website: CAx-Download-Manager	https://siemens.com/cax	
to website: Industry Online Support	https://support.industry.siemens.com	
• 10 websile: Industry Unline Support		

additional information

other information

Specifications at rated input voltage and ambient temperature +25 $^{\circ}\text{C}$ (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 www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)

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

Approvals Certificates

General Product Approval







Manufacturer Declaration Declaration of Conformity



General Product Approval

Environment

Miscellaneous





last modified:

4/4/2025