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



nput	
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
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
I2t value maximum	26 A ² ·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	
utput voltage curve at output	
	V)
voltage curve at output	V) Controlled, isolated DC voltage
voltage curve at output output voltage at DC rated value	V) Controlled, isolated DC voltage
voltage curve at output output voltage at DC rated value output voltage	V) Controlled, isolated DC voltage 24 V
voltage curve at output output voltage at DC rated value output voltage • at output 1 at DC rated value	V) Controlled, isolated DC voltage 24 V 24 V
voltage curve at output output voltage at DC rated value output voltage • at output 1 at DC rated value output voltage adjustable	V) Controlled, isolated DC voltage 24 V 24 V Yes; via potentiometer
voltage curve at output output voltage at DC rated value output voltage • at output 1 at DC rated value output voltage adjustable adjustable output voltage	V) Controlled, isolated DC voltage 24 V 24 V Yes; via potentiometer 24 28.8 V
voltage curve at output output voltage at DC rated value output voltage • at output 1 at DC rated value output voltage adjustable adjustable output voltage relative overall tolerance of the voltage	V) Controlled, isolated DC voltage 24 V 24 V Yes; via potentiometer 24 28.8 V
voltage curve at output output voltage at DC rated value output voltage • at output 1 at DC rated value output voltage adjustable adjustable output voltage relative overall tolerance of the voltage relative control precision of the output voltage	V) Controlled, isolated DC voltage 24 V 24 V Yes; via potentiometer 24 28.8 V 3 %
voltage curve at output output voltage at DC rated value output voltage • at output 1 at DC rated value output voltage adjustable adjustable output voltage relative overall tolerance of the voltage relative control precision of the output voltage • on slow fluctuation of input voltage	V) Controlled, isolated DC voltage 24 V 24 V Yes; via potentiometer 24 28.8 V 3 % 0.1 %
voltage curve at output output voltage at DC rated value output voltage • at output 1 at DC rated value output voltage adjustable adjustable output voltage relative overall tolerance of the voltage relative control precision of the output voltage • on slow fluctuation of input voltage • on slow fluctuation of ohm loading	V) Controlled, isolated DC voltage 24 V 24 V Yes; via potentiometer 24 28.8 V 3 % 0.1 %
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type of signal at output via signaling module (6EP1961-3BA10) behavior of the output voltage when switching on Overshoot of Vout approx. 3 % response delay maximum 0.1 s voltage increase time of the output voltage 50 ms output current 40 A • rated value 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 120 A duration of overloading capability for excess current 46 A • on short-circuiting during the start-up typical 46 A bridging of equipment Yes; switchable characteristic number of parallel-switched equipment resources for increasing the power 2 efficiency 88 % power loss [W] 611 W • at rated value of the output current sources for increasing the power loss [W] 131 W	
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power loss [W] • at rated output voltage for rated value of the output current typical 131 W	
• at rated output voltage for rated value of the output 131 W 131 W	
current typical	
···	
closed-loop control	
relative control precision of the output voltage with rapid 1 %	
fluctuation of the input voltage by +/- 15% typical	
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	
design of the overvoltage protection < 35 V	
property of the output short-circuit proof Yes	
design of short-circuit protection Alternatively, constant current characteristic approx. 46 A or latching	a shutdown
• typical 46 A	
enduring short circuit current RMS value	
• typical 46 A	
safety	
galvanic isolation between input and output Yes	170
galvanic isolation Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50	1/8
operating resource protection class Class I	
leakage current	
leakage current 3.5 mA	
• maximum 3.5 mA	
• maximum 3.5 mA • typical 0.4 mA	
maximum 3.5 mA typical 0.4 mA IP20	
maximum 3.5 mA typical 0.4 mA protection class IP IP20 standard	
• maximum 3.5 mA • typical 0.4 mA protection class IP IP20 standard IP20 • for emitted interference EN 55022 Class B • for mains harmonics limitation - • for interference immunity EN 61000-6-2	
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• maximum3.5 mA• typical0.4 mAprotection class IPIIP20standardIP20• for emitted interferenceEN 55022 Class B• for mains harmonics limitation-• for interference immunityEN 61000-6-2standards, specifications, approvals-certificate of suitabilityYes• CE markingYes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259	
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• SEMI F47	Yes
type of certification	
CB-certificate	No
MTBF at 40 °C	540 249 h
standards, specifications, approvals hazardous environments	JHU 243 II
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
French marine classification society (BV)	No
Det Norske Veritas (DNV)	No
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 mm ² single-core/finely stranded
• at output	+, -: 2 screw terminals each for 0.5 10 mm ²
for auxiliary contacts	-
mechanical data	
width × height × depth of the enclosure	240 × 125 × 125 mm
installation width × mounting height	240 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 35x15
standard 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 website: Industrial communication	https://siemens.com/industrial-communication
 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 ar that support the secure operat In order to protect plants, syst threats, it is necessary to impli- state-of-the-art industrial cybe solutions constitute one eleme for preventing unauthorized ac networks. Such systems, mac to an enterprise network or the necessary and only when app network segmentation) are in cybersecurity measures that n www.siemens.com/cybersecu undergo continuous developm recommends that product upd and that the latest product ver no longer supported, and failu customer's exposure to cyber subscribe to the Siemens Indu https://www.siemens.com/cert	ion of plants, systems, ma ems, machines and netwo ement – and continuously resecurity concept. Siemens int of such a concept. Cust cress to their plants, system hines and components sho internet if and to the exter ropriate security measures place. For additional inform any be implemented, pleas rity-industry. Siemens' pro- ent to make them more se ates are applied as soon a sions are used. Use of pro- re to apply the latest updat threats. To stay informed a strial Cybersecurity RSS F	chines and networks. rks against cyber maintain – a holistic, s' products and tomers are responsible ms, machines and ould only be connected nt such a connection is a (e.g. firewalls and/or nation on industrial se visit ducts and solutions ecure. Siemens strongly as they are available duct versions that are tes may increase about product updates,
		Version	Classification
	eClass	14	27-04-07-01
	eClass	12	27-04-07-01
	eClass	9.1	27-04-07-01

eClass

eClass

eClass

eClass

ETIM

ETIM

ETIM

IDEA

UNSPSC

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27-04-07-01

27-04-90-02 27-04-90-02

27-04-90-02

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39-12-10-04

Approvals Certificates	
General Product Approval	



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