SIEMENS

Data sheet



SITOP PSU8200/1AC/24VDC/5A

SITOP PSU8200 24 V/5 A stabilized power supply input: 120/230 V AC output: 24 V DC/5 A

type of the power supply network	1-phase AC	
supply voltage at AC	Automatic range selection	
supply voltage	120 V/230 V	
input voltage 1 at AC	85 132 V	
input voltage 1 at AC	170 264 V	
wide range input	No	
buffering time for rated value of the output current in the event of power failure minimum	35 ms	
operating condition of the mains buffering	at Vin = 120/230 V	
line frequency	50/60 Hz	
line frequency	47 63 Hz	
input current		
at rated input voltage 120 V	2.1 A	
at rated input voltage 230 V	1.2 A	
current limitation of inrush current at 25 °C maximum	10 A	
I2t value maximum	0.2 A²-s	
fuse protection type	T 3.15 A (not accessible)	
fuse protection type in the feeder	Recommended miniature circuit breaker at 1-phase operation: from 6 A (10 A) characteristic C (B); required at 2-phase operation: circuit breaker 2-pole connected or circuit breaker 3RV2011-1EA10 (setting 3.8 A) or 3RV2711-1ED10 (UL 489) at 230 V; 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489) at 400/500 V	
output		
voltage curve at output	Controlled, isolated DC voltage	
•	Controlled, isolated DC voltage 24 V	
voltage curve at output		
voltage curve at output output voltage at DC rated value		
voltage curve at output output voltage at DC rated value output voltage • at output 1 at DC rated value	24 V	
voltage curve at output output voltage at DC rated value output voltage • at output 1 at DC rated value output voltage adjustable	24 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	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 relative overall tolerance of the voltage	24 V 24 V Yes; via potentiometer 24 28.8 V; max. 120 W	
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	24 V 24 V Yes; via potentiometer 24 28.8 V; max. 120 W 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	24 V 24 V Yes; via potentiometer 24 28.8 V; max. 120 W	
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	24 V 24 V Yes; via potentiometer 24 28.8 V; max. 120 W 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 residual ripple	24 V 24 V Yes; via potentiometer 24 28.8 V; max. 120 W 3 % 0.1 %	
voltage curve at output output voltage at DC rated value output voltage	24 V 24 V Yes; via potentiometer 24 28.8 V; max. 120 W 3 % 0.1 % 0.2 %	
voltage curve at output output voltage at DC rated value output voltage	24 V 24 V Yes; via potentiometer 24 28.8 V; max. 120 W 3 % 0.1 % 0.2 %	
voltage curve at output output voltage at DC rated value output voltage	24 V Yes; via potentiometer 24 28.8 V; max. 120 W 3 % 0.1 % 0.2 % 50 mV	
voltage curve at output output voltage at DC rated value output voltage	24 V Yes; via potentiometer 24 28.8 V; max. 120 W 3 % 0.1 % 0.2 % 50 mV	

rocponeo dolay mayimum	150	
response delay maximum	1.5 s	
voltage increase time of the output voltage	20	
• typical	30 ms	
output current		
• rated value	5 A	
rated range	0 5 A; As of Ua>24 V: 4% [la]/V [Ua]; at Ue<100 V/<200 V: 80% la rated	
supplied active power typical	120 W	
short-term overload current		
 at short-circuit during operation typical 	15 A	
duration of overloading capability for excess current		
at short-circuit during operation	25 ms	
constant overload current		
on short-circuiting during the start-up typical	6 A	
bridging of equipment	Yes; switchable characteristic	
number of parallel-switched equipment resources for increasing the power	2	
efficiency		
efficiency in percent	93 %	
power loss [W]		
at rated output voltage for rated value of the output current typical	9 W	
during no-load operation maximum	1.5 W	
closed-loop control	1.0 11	
relative control precision of the output voltage with rapid	0.1 %	
fluctuation of the input voltage by +/- 15% typical		
relative control precision of the output voltage load step of resistive load 50/100/50 % typical	2 %	
setting time		
load step 50 to 100% typical	0.25 ms	
• load step 30 to 100% typical	0.5 ms	
relative control precision of the output voltage at load step of	2 %	
resistive load 10/90/10 % typical	2 /0	
setting time		
load step 10 to 90% typical	0.25 ms	
 load step 90 to 10% typical 	0.5 ms	
• maximum	1 ms	
protection and monitoring		
design of the overvoltage protection	< 33 V	
property of the output short-circuit proof	Yes	
design of short-circuit protection	Alternatively, constant current characteristic approx. 6 A or latching shutdown	
• typical	6 A	
overcurrent overload capability		
• in normal operation	overload capability 150 % lout rated up to 5 s/min	
enduring short circuit current RMS value	5.5.1534 Supulsing 100 70 fout futed up to 0 offinit	
-	6 A	
typical display version for overload and short circuit	LED yellow for "overload", LED red for "latching shutdown"	
safety	LED yellow for overload, LED fed for fatching strutuowif	
	Voc	
galvanic isolation between input and output	Yes Safety outra law output valtage Llaut age to EN 60050.1 and EN 50179	
galvanic isolation	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178	
operating resource protection class	Class I	
leakage current	2.5 1	
• maximum	3.5 mA	
• typical	1 mA	
protection class IP	IP20	
EMC		
standard		
• for emitted interference	EN 55022 Class B	
 for mains harmonics limitation 	EN 61000-3-2	
• for interference immunity	EN 61000-6-2	
standards, specifications, approvals		
certificate of suitability		
CE marking	Yes	

UL approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)	
CSA approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)	
EAC approval	Yes	
 Regulatory Compliance Mark (RCM) 	Yes	
NEC Class 2	No	
type of certification		
CB-certificate	Yes	
MTBF at 40 °C	1 421 519 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	Yes	
Marine classification association	160	
	Yes	
 American Bureau of Shipping Europe Ltd. (ABS) French marine classification society (BV) 	No	
Prench manne classification society (BV) Det Norske Veritas (DNV)	Yes	
,	No	
Lloyds Register of Shipping (LRS) standards specifications approvals Environmental Broduct Do	***	
standards, specifications, approvals Environmental Product Dec		
Environmental Product Declaration	Yes	
Global Warming Potential [CO2 eq]	22.0	
• total	294.6 kg	
during manufacturing	12.6 kg	
during operation	281.6 kg	
after end of life	0.18 kg	
ambient conditions		
ambient temperature		
during operation	-25 +70 °C; With natural convection; startup tested starting from -40 °C nominal voltage	
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 2.5 mm² single-core/finely stranded	
• at output	+, -: 2 screw terminals each for 0.2 2.5 mm ²	
for auxiliary contacts	13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm²; 15, 16	
and the start date	(Remote): 1 screw terminal each for 0.14 1.5 mm ²	
mechanical data		
width × height × depth of the enclosure	45 × 125 × 125 mm	
installation width × mounting height	45 mm × 225 mm	
required spacing		
 top 	50 mm	
• bottom	50 mm	
● left	0 mm	
● right	0 mm	
fastening method	Spans onto DIN rail EN 60715 25v7 5/15	
	Snaps onto DIN rail EN 60715 35x7.5/15	
 standard rail mounting 	Yes	
standard rail mountingS7 rail mounting		
_	Yes	
S7 rail mounting	Yes No	
S7 rail mounting wall mounting	Yes No No	
S7 rail mounting wall mounting housing can be lined up	Yes No No Yes	
S7 rail mounting wall mounting housing can be lined up net weight	Yes No No Yes	
S7 rail mounting wall mounting housing can be lined up net weight accessories	Yes No No Yes 0.8 kg	

internet link

• to website: Industry Mall

• to website: Industrial communication

• to website: CAx-Download-Manager

• to website: Industry Online Support

https://mall.industry.siemens.com

https://siemens.com/industrial-communication

https://siemens.com/cax

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 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)

	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 Declaration

Declaration of Conformity



General Product Approval





Marine / Shipping





Environment

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