SIEMENS

Data sheet



SITOP PSU8200/3AC/48VDC/20A

SITOP PSU8200 48 V/20 A stabilized power supply input: 400-500 V 3 AC output: 48 V DC/20 A

type of the power supply network	3-phase AC	
supply voltage at AC		
minimum rated value	400 V	
maximum rated value	500 V	
• initial value	320 V	
• full-scale value	575 V	
wide range input	Yes	
buffering time for rated value of the output current in the event of power failure minimum	10 ms	
operating condition of the mains buffering	at Vin = 400 V	
line frequency	50/60 Hz	
line frequency	45 65 Hz	
input current		
 at rated input voltage 400 V 	2 A	
• at rated input voltage 500 V	1.7 A	
current limitation of inrush current at 25 °C maximum	13 A	
12t value maximum	2.24 A ² ·s	
fuse protection type in the feeder	Required: 3-pole connected miniature circuit breaker 10 16 A characteristic or circuit breaker 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489)	
utput		
voltage curve at output	Controlled, isolated DC voltage	
output voltage at DC rated value	48 V	
output voltage		
at output 1 at DC rated value	48 V	
output voltage adjustable	Yes; via potentiometer	
adjustable output voltage	46 56 V; max. 960 W	
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	0.2 %	
residual ripple		
residual ripple • maximum	100 mV	
	100 mV	
• maximum	100 mV 480 mV	
maximum voltage peak		
maximum voltage peak maximum	480 mV	
maximum voltage peak maximum display version for normal operation	480 mV Green LED for 48 V OK	

- many time time	100	
• maximum	100 ms	
output current		
rated value	20 A	
rated range	0 20 A; +60 +70 °C: Derating 4%/K	
supplied active power typical	960 W	
short-term overload current		
 at short-circuit during operation typical 	60 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 	24 A	
bridging of equipment	Yes; switchable characteristic	
number of parallel-switched equipment resources for increasing	2	
the power		
efficiency		
efficiency in percent	94 %	
power loss [W]		
 at rated output voltage for rated value of the output 	58 W	
current typical		
during no-load operation maximum	4 W	
closed-loop control		
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 resistive load 50/100/50 % typical	3 %	
setting time		
maximum	10 ms	
protection and monitoring		
design of the overvoltage protection	< 57.8 V	
property of the output short-circuit proof	Yes	
design of short-circuit protection	Alternatively, constant current characteristic approx. 22 A or latching shutdown	
• typical	22 A	
overcurrent overload capability	LET	
in normal operation	overload capability 150 % lout rated up to 5 s/min	
enduring short circuit current RMS value	Overload capability 130 % loat rated up to 3 3/11111	
	26 A	
• typical		
display version for overload and short circuit	LED yellow for "overload", LED red for "latching shutdown"	
safety	V.	
galvanic isolation between input and output	Yes	
galvanic isolation	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178	
operating resource protection class	Class I	
leakage current		
• maximum	1 mA	
• typical	0.6 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	
TO THE TOTAL	(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	
• SEMI F47	Yes	
type of certification	1.00	
type of certification		

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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)

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Approvals Certificates

General Product Approval





Manufacturer Declaration

Declaration of Conformity





General Product Approval

Marine / Shipping

Environment









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