# **SIEMENS**

## **Data sheet**



SITOP PSU8200/3AC/48VDC/10A

SITOP PSU8200 48 V/10 A stabilized power supply input: 400-500 V 3 AC output: 48 V DC/10 A

nput	
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	15 ms
operating condition of the mains buffering	at Vin = 400 V
line frequency	50/60 Hz
line frequency	47 63 Hz
input current	
at rated input voltage 400 V	1.2 A
at rated input voltage 500 V	1 A
current limitation of inrush current at 25 °C maximum	16 A
I2t value maximum	0.8 A <sup>2</sup> ·s
fuse protection type	none
fuse protection type in the feeder	Required: 3-pole connected miniature circuit breaker 6 16 A characteristic C or circuit breaker 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489)
output	
voltage curve at output	Controlled, isolated DC voltage
output voltage at DC rated value	48 V
output voltage	
<ul> <li>at output 1 at DC rated value</li> </ul>	48 V
output voltage adjustable	Yes; via potentiometer
adjustable output voltage	42 56 V; max. 480 W
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	
• maximum	100 mV
voltage peak	
• maximum	200 mV
display version for normal operation	Green LED for 48 V OK
type of signal at output	Relay contact (NO contact, rating 60 V DC/ 0.3 A) for 48 V OK
behavior of the output voltage when switching on	No overshoot of Vout (soft start)
zenzene. et alle suspet voltage virion evitorining en	
response delay maximum	2.5 s

a mayimum	500 ms	
maximum  output current	300 III8	
output current  • rated value	10 A	
rated range	0 10 A; +60 +70 °C: Derating 2%/K	
	· · · · · · · · · · · · · · · · · · ·	
supplied active power typical	480 W	
short-term overload current	20 A	
at short-circuit during operation typical  duration of overloading capability for excess current	30 A	
at short-circuit during operation	25 ms	
constant overload current	23 1110	
on short-circuiting during the start-up typical	11 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]		
<ul> <li>at rated output voltage for rated value of the output current typical</li> </ul>	31 W	
closed-loop control		
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	1 %	
resistive load 50/100/50 % typical		
setting time	0.2 ms	
<ul><li>load step 50 to 100% typical</li><li>load step 100 to 50% typical</li></ul>	0.2 ms	
relative control precision of the output voltage at load step of	2 %	
resistive load 10/90/10 % typical	2 /0	
setting time		
<ul> <li>load step 10 to 90% typical</li> </ul>	0.2 ms	
● load step 90 to 10% typical	0.2 ms	
• maximum	10 ms	
protection and monitoring		
design of the overvoltage protection	< 60 V	
property of the output short-circuit proof	Yes	
design of short-circuit protection	Alternatively, constant current characteristic approx. 11 A or latching shutdown	
• typical	11 A	
overcurrent overload capability  • in normal operation	overload capability 150 % lout rated up to 5 s/min	
enduring short circuit current RMS value	overload capability 130 % fout fated up to 3 s/fillif	
• typical	11 A	
display version for overload and short circuit	LED yellow for "overload", LED red for "latching shutdown"	
safety		
galvanic isolation between input and output	Yes	
galvanic isolation	Safety extra low output voltage Vout according to EN 60950-1	
operating resource protection class	Class I	
leakage current		
• maximum	3.5 mA	
• typical	0.9 mA	
protection class IP	IP20	
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	Vice	
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		
• OOA 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	
<ul> <li>Regulatory Compliance Mark (RCM)</li> </ul>	Yes	
NEC Class 2	No	
SEMI F47	Yes	
type of certification		
CB-certificate	Yes	
standards, specifications, approvals hazardous environments		
certificate of suitability		
• IECEx	No	
• ATEX	No	
<ul> <li>ULhazloc approval</li> </ul>	No	
<ul> <li>cCSAus, Class 1, Division 2</li> </ul>	No	
FM registration	No	
standards, specifications, approvals marine classification		
shipbuilding approval	Yes	
Marine classification association		
<ul> <li>American Bureau of Shipping Europe Ltd. (ABS)</li> </ul>	Yes	
<ul> <li>French marine classification society (BV)</li> </ul>	No	
Det Norske Veritas (DNV)	Yes	
Lloyds Register of Shipping (LRS)	No	
standards, specifications, approvals Environmental Product De	claration	
Environmental Product Declaration	Yes	
Global Warming Potential [CO2 eq]		
• total	989.5 kg	
during manufacturing	18.9 kg	
during operation	970 kg	
after end of life	0.27 kg	
ambient conditions		
ambient temperature		
during operation	-25 +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		
connection method	Climate class 3K3, 5 95% no condensation	
type of electrical connection	screw terminal	
• at input	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm <sup>2</sup> single-core/finely stranded	
• at output	+, -: 2 screw terminals each for 0.2 4 mm²	
<ul> <li>for auxiliary contacts</li> </ul>	13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm²; 15, 16	
	(Remote): 1 screw terminal each for 0.14 1.5 mm <sup>2</sup>	
mechanical data		
width × height × depth of the enclosure	70 × 125	
installation width × mounting height	70 mm	
required spacing		
<ul> <li>• top</li> </ul>	50 mm	
• bottom	50 mm	
• left	0 mm	
• right	0 mm	
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15	
standard rail mounting	Yes	
S7 rail mounting	No	
• wall mounting	No	
housing can be lined up	Yes	
net weight	1.2 kg	
accessories		
mechanical accessories	Device identification label 20 mm × 7 mm, Tl-grey 3RT2900-1SB20	
further information internet links	, 5.0, 0.01200 10020	
internet link		
to website: Industry Mall	https://mall.industry.siemens.com	
to website. Industry Mail     to web page: selection aid TIA Selection Tool	https://siemens.com/tst	
U web page. Selection aid TIA Selection 1001	HILDS://dicticlia.com//at	
to website: Industrial communication	http://www.siemens.com/simatic-net	

• to website: CAx-Download-Manager

• to website: Industry Online Support

http://www.siemens.com/cax

https://support.industry.siemens.com

additional information

other information

Specifications at rated input voltage and ambient temperature +25  $^{\circ}$ C (unless otherwise specified)

### security information

security information

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#### Classifications

	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**

CB

Manufacturer Declaration Declaration of Conformity







General Product Approval

Marine / Shipping

Environment









last modified:

5/22/2024