## **SIEMENS**

## **Data sheet**



## SITOP PSU8200/1AC/24VDC/40A

SITOP PSU8200 24 V/40 A stabilized power supply input: 120/230 V AC output: 24 V DC/40 A

type of the power supply network	1-phase and 2-phase AC	
supply voltage at AC	Automatic selection; startup starting from Ue ≥ 90/180 V	
supply voltage	120 V/230 V	
input voltage 1 at AC	85 132 V	
input voltage 2 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	25 ms	
operating condition of the mains buffering	at Vin = 230 V	
line frequency	50/60 Hz	
line frequency	45 65 Hz	
input current		
<ul> <li>at rated input voltage 120 V</li> </ul>	15 A	
<ul> <li>at rated input voltage 230 V</li> </ul>	9 A	
current limitation of inrush current at 25 °C maximum	50 A	
I2t value maximum	8 A²-s	
fuse protection type	Yes	
fuse protection type in the feeder	Recommended miniature circuit breaker at 1-phase operation: 16 A characteristic C; required at 2-phase operation: circuit breaker 2-pole connected or circuit breaker 3RV2421-4BA10 (120 V) or 3RV2411-1JA10 (230 V)	
putput		
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 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	0.1 %	
residual ripple		
• maximum	100 mV	
typical	50 mV	
voltage peak		
• maximum	240 mV	
• typical	220 mV	
display version for normal operation	Green LED for 24 V OK; LED yellow for overload; LED red for short-circuit or latching shutdown	

type of signal at output	Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK"	
type of signal at output behavior of the output voltage when switching on	Overshoot of Vout approx. 3 %	
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response delay maximum	1.5 s	
voltage increase time of the output voltage		
• typical	30 ms	
output current	40.4	
rated value	40 A	
rated range	0 40 A; +60 +70 °C: Derating 3%/K	
supplied active power typical	960 W	
short-term overload current		
<ul> <li>on short-circuiting during the start-up typical</li> </ul>	120 A	
at short-circuit during operation typical	120 A	
duration of overloading capability for excess current		
<ul> <li>on short-circuiting during the start-up</li> </ul>	25 ms	
at short-circuit during operation	25 ms	
constant overload current		
<ul> <li>on short-circuiting during the start-up typical</li> </ul>	60 A	
bridging of equipment	Yes; switchable characteristic	
number of parallel-switched equipment resources for increasing	2	
the power		
efficiency		
efficiency in percent	92 %	
power loss [W]		
at rated output voltage for rated value of the output	82 W	
current typical	0.0 W	
during no-load operation maximum	6.8 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	1.9 %	
resistive load 50/100/50 % typical	1.0 /0	
setting time		
<ul><li>load step 50 to 100% typical</li></ul>	2 ms	
<ul><li>load step 100 to 50% typical</li></ul>	2 ms	
relative control precision of the output voltage at load step of	3.8 %	
resistive load 10/90/10 % typical		
setting time		
<ul> <li>load step 10 to 90% typical</li> </ul>	1 ms	
<ul><li>load step 90 to 10% typical</li></ul>	1 ms	
maximum	1 ms	
protection and monitoring		
design of the overvoltage protection	< 32 V	
property of the output short-circuit proof	Yes	
design of short-circuit protection	Alternatively, constant current characteristic approx. 41 A or latching shutdown	
typical	41 A	
overcurrent overload capability		
in normal operation	250% lout rated up to 25 ms, 150% lout rated up to 5 s/min	
enduring short circuit current RMS value		
• typical	41 A	
display version for overload and short circuit	LED yellow for "overload", LED red for "latching shutdown" or "short-circuit"	
safety		
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	0.1 mA	
• typical	0.1 mA	
protection class IP	IP20	
EMC		
standard		
for emitted interference	EN 55022 Class B	
for mains harmonics limitation		

• 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)	
<ul> <li>EAC approval</li> </ul>	Yes	
<ul> <li>Regulatory Compliance Mark (RCM)</li> </ul>	Yes	
NEC Class 2	No	
type of certification		
• BIS	Yes; R-41183539	
CB-certificate	Yes	
MTBF at 40 °C	838 156 h	
standards, specifications, approvals hazardous environments		
certificate of suitability	N.	
• IECEX	No	
• ATEX	No.	
ULhazloc approval     CCAve Close 1 Division 2	No.	
• cCSAus, Class 1, Division 2	No.	
FM registration  standards, appointment approvals marine electrication	No	
standards, specifications, approvals marine classification	Von	
shipbuilding approval	Yes	
Marine classification association	Voc	
American Bureau of Shipping Europe Ltd. (ABS)      French marine classification society (BV)	Yes No	
<ul><li>French marine classification society (BV)</li><li>Det Norske Veritas (DNV)</li></ul>	Yes	
Lloyds Register of Shipping (LRS)	Yes No	
standards, specifications, approvals Environmental Product Dec		
Environmental Product Declaration	Yes	
global warming potential [CO2 eq]	100	
• total	2 616.1 kg	
during manufacturing	48.8 kg	
during manufacturing     during operation	2 565.8 kg	
after end of life	0.7 kg	
ambient conditions		
ambient temperature		
during operation	-25 +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	13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm <sup>2</sup>	
mechanical data		
width × height × depth of the enclosure	145 × 145 × 150 mm	
installation width × mounting height	150 mm × 225 mm	
required spacing		
• top	40 mm	
• bottom	40 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	3.1 kg	

accessories				
electrical accessories	Buffer module, redundancy module			
mechanical accessories	Device identification label 20 mm × 7 mm, Tl-grey 3RT2900-1SB20			
further information internet links				
internet link				
• to website: Industry Mall	https://mall.industry.siemens.com			
<ul> <li>to web page: selection aid TIA Selection Tool</li> </ul>	https://www.siemens.com/tstcloud			
<ul><li>to web page: power supplies</li></ul>	https://siemens.com/sitop https://siemens.com/cax			
<ul><li>to website: CAx-Download-Manager</li></ul>				
<ul> <li>to website: Industry Online Support</li> </ul>	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

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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** 







Manufacturer Declaration Declaration of Conformity



**General Product Approval** 

Maritime application







Miscellaneous

**BIS CRS** 



Maritime application

Environment





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