SIEMENS

Data sheet

6EP3447-8SB00-0AY0



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

input	
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
I2t value maximum	2.24 A ² ·s
fuse protection type in the feeder	Required: 3-pole connected miniature circuit breaker 10 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	
 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	
• maximum	100 mV
voltage peak	
• maximum	480 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	minimal overshoot (< 3 %)
response delay maximum	0.1 s
voltage increase time of the output voltage	

- movimum	100 mg	
maximum	100 ms	
output current	20 A	
rated value	0 20 A; +60 +70 °C: Derating 4%/K	
rated range		
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 the power	2	
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		
 in normal operation 	overload capability 150 % lout rated up to 5 s/min	
enduring short circuit current RMS value		
• typical	26 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 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	Neg.	
• 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	
• SEMI F47	Yes	
type of certification		
9r		

CB-certificate	Yes
MTBF at 40 °C	520 782 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	
 American Bureau of Shipping Europe Ltd. (ABS) 	No
French marine classification society (BV)	No
Det Norske Veritas (DNV)	Yes
Lloyds Register of Shipping (LRS)	No
standards, specifications, approvals Environmental Product Dec	claration
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
• total	1 865.9 kg
during manufacturing	49.6 kg
during operation	1 814.8 kg
after end of life	0.71 kg
ambient conditions	· 5
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	L1, L2, L3, PE: 1 screw terminal each for 0.5 4 mm ² single-core/finely stranded
• at output	+: 2 screw terminals each for 0.5 16 mm²; -: 3 screw terminals each for 0.5 16 mm²
 for auxiliary contacts 	13, 14 (alarm signal), 15, 16 (Remote): 1 screw terminal each for 0.05 \dots 2.5 $\rm mm^2$
mechanical data	
width × height × depth of the enclosure	135 × 145 × 150 mm
installation width × mounting height	135 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	Mag
	Yes
• S7 rail mounting	No
-	
S7 rail mounting	No No Yes
S7 rail mounting wall mounting	No No
S7 rail mounting wall mounting housing can be lined up	No No Yes
S7 rail mounting wall mounting housing can be lined up net weight accessories mechanical accessories	No No Yes
S7 rail mounting wall mounting housing can be lined up net weight accessories	No No Yes 3.3 kg
S7 rail mounting wall mounting housing can be lined up net weight accessories mechanical accessories further information internet links internet link	No No Yes 3.3 kg Device identification label 20 mm × 7 mm, TI-grey 3RT2900-1SB20
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General Product Approval

4/4/2025 🖸

Environment

Maritime application