SIEMENS

Data sheet

6EP3447-8SB00-0AY0

SITOP PSU8200/3AC/48VDC/20A



SITOP PSU8200 48 V/20 A Stabilized power supplies Input: 3 400-500 V AC Output: 48 V/20 A DC

Input	
Input	3-phase AC
Rated voltage value Vin rated	400 500 V
Voltage range AC	320 575 V
Wide-range input	Yes
Mains buffering	at Vin = 400 V
Mains buffering at lout rated, min.	10 ms; at Vin = 400 V
Rated line frequency 1	50 Hz
Rated line frequency 2	60 Hz
Rated line range	45 65 Hz
input current	
 at rated input voltage 400 V 	2 A
 at rated input voltage 500 V 	1.7 A
Switch-on current limiting (+25 °C), max.	13 A
l²t, max.	2.24 A ² ·s
Protection in the mains power input (IEC 898)	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	
Output	Controlled, isolated DC voltage
Rated voltage Vout DC	48 V
Total tolerance, static ±	3 %
Static mains compensation, approx.	0.1 %
Static load balancing, approx.	0.2 %
Residual ripple peak-peak, max.	100 mV
Spikes peak-peak, max. (bandwidth: 20 MHz)	480 mV
Adjustment range	46 56 V
product function output voltage adjustable	Yes
Output voltage setting	via potentiometer; max. 960 W
Status display	Green LED for 48 V OK
Signaling	Relay contact (NO contact, rating 60 V DC/ 0.3 A) for 48 V OK
On/off behavior	minimal overshoot (< 3 %)
Startup delay, max.	0.1 s
voltage increase time of the output voltage maximum	100 ms
Rated current value lout rated	20 A

enduring short circuit current RMS value • typical 26 A overcurrent overload capability in normal operation overload capability 150 % lout rated up to 5 s/min Overload/short-circuit indicator LED yellow for "overload", LED red for "latching shutdown" Safety		
suppled active power typical 960 W short-term overload current 60 A duration of overloading capability for excess current 25 ms constant overload current 27 ms on short-circuit during peration 28 ms constant overload current 24 A Parallel switching for enhanced performance Yes; switchable characteristic Numbers of parallel switchable units for enhanced 2 Efficiency Efficiency Efficiency 58 W Dower loss IV Vour rated, lout rated, approx. 58 W Dower loss IV Quiring no-load operation maximum 4 W Closed-loop control 7% Dynamic mains compensation (Vin rated ±15 %), max. 1 % Dynamic mains compensation (Vin rated ±15 %), max. 1 % Dynamic mains compensation (Vin rated ±15 %), max. 1 % Dynamic wains compensation (Vin rated ±15 %), max. 1 % Dynamic wains compensation (Vin rated ±15 %), max. 1 % Output overolage protection < 57 8 V	-	
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• maximum 1 mA • typical 0.6 mA Degree of protection (EN 60529) IP20 Approvals CE mark UL/cUL (CSA) approval cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAI (CSA C22.2 No. 60950-1, UL 60950-1) Explosion protection IECEx Ex nA nC IIC T4 Gc; ATEX (EX) II 3G Ex nA nC IIC T4 Gc; cCSAus (CSA C22.2 No. 213, ANSI/ISA-12.12.01) Class I, Div. 2, Group ABCD, T4 certificate of suitability NEC Class 2 No FM approval - CB approval Yes dertificate of suitability EAC approval Yes Marine approval PNV GL Emitted interference EN 55022 Class B Supply harmonics limitation EN 61000-3-2 Noise immunity EN 61000-6-2 environmental conditions Environmental conditions		
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certificate of suitability EAC approval Yes Marine approval DNV GL EMC Emitted interference Supply harmonics limitation EN 61000-3-2 Noise immunity EN 61000-6-2 environmental conditions EN 61000-6-2		Yes
Marine approval DNV GL EMC Emitted interference Supply harmonics limitation EN 55022 Class B Noise immunity EN 61000-3-2 Noise immunity EN 61000-6-2		
EMC Emitted interference EN 55022 Class B Supply harmonics limitation EN 61000-3-2 Noise immunity EN 61000-6-2 environmental conditions EN 61000-6-2		
Emitted interference EN 55022 Class B Supply harmonics limitation EN 61000-3-2 Noise immunity EN 61000-6-2 environmental conditions EN 61000-6-2		
Supply harmonics limitation EN 61000-3-2 Noise immunity EN 61000-6-2 environmental conditions Environmental conditions		EN 55022 Class B
Noise immunity EN 61000-6-2 environmental conditions		
environmental conditions		
a during operation	•	25 ±70 °C
during operation -25 +70 °C	0	
- Note With natural convection		
• during transport -40 +85 °C	 during transport 	-40 †80 6

 during storage 	-40 +85 °C
Humidity class according to EN 60721	Climate class 3K3, 5 95% no condensation
Mechanics	
Connection technology	screw-type terminals
Connections	
Supply input	L1, L2, L3, PE: 1 screw terminal each for 0.5 4 mm ² single-core/finely stranded
Output	+: 2 screw terminals each for 0.5 16 mm ² ; -: 3 screw terminals each for 0.5 16 mm ²
Auxiliary	13, 14 (alarm signal), 15, 16 (Remote): 1 screw terminal each for 0.05 \ldots 2.5 $\rm mm^2$
width of the enclosure	135 mm
height of the enclosure	145 mm
depth of the enclosure	150 mm
required spacing	
• top	40 mm
bottom	40 mm
• left	0 mm
• right	0 mm
Weight, approx.	3.3 kg
product feature of the enclosure housing can be lined up	Yes
Installation	Snaps onto DIN rail EN 60715 35x15
mechanical accessories	Device identification label 20 mm × 7 mm, TI-grey 3RT2900-1SB20
MTBF at 40 °C	520 782 h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

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