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 *Ex approval no longer available*

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
design of input wide range input	Yes
operating condition of the mains buffering	at Vin = 400 V
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	
• 1 rated value	50 Hz
2 rated value	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 ² ·s
fuse protection type	none
• 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	
at output 1 at DC rated value	48 V
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	200 mV
adjustable output voltage	42 56 V
product function output voltage adjustable	Yes

type of output voltage cotting	via natantiamatar: may 490 M
type of output voltage setting	via potentiometer; max. 480 W
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)
response delay maximum	2.5 s
voltage increase time of the output voltage	500
• maximum	500 ms
output current	40.4
• 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	
at short-circuit during operation typical	30 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	11 A
product feature	
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	31 W
current typical	
Closed-loop control	
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	0.1 %
relative control precision of the output voltage load step of resistive load 50/100/50 % typical	1 %
setting time	
 load step 50 to 100% typical 	0.2 ms
load step 100 to 50% typical	0.2 ms
relative control precision of the output voltage at load step of resistive load 10/90/10 % typical	2 %
setting time	
load step 10 to 90% typical	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
response value current limitation typical	11 A
property of the output short-circuit proof	Yes
design of short-circuit protection	Alternatively, constant current characteristic approx. 11 A or latching shutdown
enduring short circuit current RMS value	- CHARLOWIII
• typical	11 A
overcurrent overload capability in normal operation display version for overload and short circuit	overload capability 150 % lout rated up to 5 s/min LED yellow for "overload", LED red for "latching shutdown"
	LED yellow for overload, LED red for latering strutuowit
Safety Safety Notice Indiana Control of Control	Vac
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	0.5. A
• maximum	3.5 mA
• typical	0.9 mA
protection class IP	IP20
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)
 cCSAus, Class 1, Division 2 	No
• ATEX	No
certificate of suitability	
• IECEx	No
NEC Class 2	No
ULhazloc approval	No
FM registration	No
type of certification CB-certificate	Yes
certificate of suitability	
EAC approval	Yes
certificate of suitability shipbuilding approval	Yes
shipbuilding approval	ABS, DNV GL
Marine classification association	
 American Bureau of Shipping Europe Ltd. (ABS) 	Yes
French marine classification society (BV)	No
• DNV GL	Yes
 Lloyds Register of Shipping (LRS) 	No
Nippon Kaiji Kyokai (NK)	No
EMC	
standard	
• for emitted interference	EN 55022 Class B
for mains harmonics limitation	EN 61000-3-2
for interference immunity	EN 61000-6-2
environmental conditions	EN 01000 0 2
ambient temperature	
during operation	-25 +70 °C; with natural convection
during operation during transport	-40 +85 °C
	-40 +85 °C
during storage environmental category according to IEC 60721	Climate class 3K3, 5 95% no condensation
	Cilillate class 3N3, 3 93 /6 No condensation
Mechanics	agram time to make a
type of electrical connection	screw-type terminals
• at input	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm ² single-core/finely stranded
at output	+, -: 2 screw terminals each for 0.2 4 mm ²
for auxiliary contacts	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 mm²
width of the enclosure	70 mm
height of the enclosure	125 mm
depth of the enclosure	125 mm
required spacing	
• top	50 mm
• bottom	50 mm
left	0 mm
● right	0 mm
net weight	1.2 kg
product feature of the enclosure housing can be lined up	Yes
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15
mechanical accessories	Device identification label 20 mm × 7 mm, TI-grey 3RT2900-1SB20
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

