6EP3446-7SB00-3AX0

Data sheet



SITOP PSU6200/3AC/DC48V/10A

SITOP PSU6200 48 V/10 A stabilized power supply input: 400 - 500 V AC output: 48 V DC/10 A with diagnostic interface

input	
type of the power supply network	3-phase AC or DC
supply voltage at AC	
minimum rated value	400 V
maximum rated value	500 V
• initial value	323 V
• full-scale value	576 V
input voltage	
• at DC	450 600 V
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	25 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 	0.77 A
at rated input voltage 500 V	0.62 A
current limitation of inrush current at 25 °C maximum	17 A
fuse protection type	
• in the feeder	three-poled coupled circuit breaker from 4 A characteristic C to 16 A characteristic C or circuit breaker 3RV2011-1EA10 (setting 4 A) or 3RV2711-1ED10 (UL 489)
Output	
voltage curve at output	Controlled, isolated DC voltage
number of outputs	1
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 	0.3 %
 on slow fluctuation of ohm loading 	0.3 %
residual ripple	
• maximum	40 mV
• typical	10 mV
voltage peak	
• maximum	30 mV
• typical	20 mV

adjustable output voltage	48 56 V
product function output voltage adjustable	Yes
type of output voltage setting	via potentiometer; max. 480 W (576 W up to 45°C)
display version for normal operation	Green LED for 48 V OK
	Electronic contact (NO contact, contact rating 30 V DC/0.1 A) for DC O.K. or
type of signal at output	diagnostic interface
behavior of the output voltage when switching on	Overshoot of Vout < 2 %
response delay maximum	0.5 s
voltage increase time of the output voltage	
• typical	200 ms
output current	
rated value	10 A
rated range	0 10 A; 12 A up to +45°C; +60 +70 °C: Derating 3%/K
supplied active power typical	480 W
short-term overload current	
 on short-circuiting during the start-up typical 	15 A
at short-circuit during operation typical	15 A
product feature	
 parallel switching of outputs 	can be set with DIP switch
bridging of equipment	Yes; switchable characteristic
number of parallel-switched equipment resources for increasing the power	2
Efficiency	
efficiency in percent	96.2 %
power loss [W]	
at rated output voltage for rated value of the output current typical	19 W
during no-load operation maximum	3 W
Closed-loop control	
relative control precision of the output voltage at load step of	3 %
resistive load 10/90/10 % typical	
setting time	
 load step 10 to 90% typical 	5 ms
load step 90 to 10% typical	5 ms
• maximum	5 ms
Protection and monitoring	
design of the overvoltage protection	< 60 V
• typical	15 A
property of the output short-circuit proof	Yes
design of short-circuit protection	Shutdown and periodic restart attempts
overcurrent overload capability in normal operation	overload capability 150 % lout rated up to 5 s/min
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
protection class IP	IP20
Approvals	
certificate of suitability	V
CE marking	Yes
UL approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 62368-1, UL 62368-1)
CSA approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 62368-1, UL 62368-1)
• cCSAus, Class 1, Division 2	No
• ATEX	No
certificate of suitability	
• IECEx	No
NEC Class 2	No
ULhazloc approval	
	No
FM registration	No No

tune of contification CD contificate	Vac
type of certification CB-certificate	Yes
certificate of suitability	
EAC approval	Yes
• C-Tick	No
Regulatory Compliance Mark (RCM)	No
certificate of suitability shipbuilding approval	Yes
shipbuilding approval	ABS; in process: DNV
Marine classification association	
 American Bureau of Shipping Europe Ltd. (ABS) 	Yes
 French marine classification society (BV) 	No
DNV GL	No
 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	
ambient temperature	
during operation	-30 +70 °C; with natural convection a monotonically increasing start-up from
	-25 °C, safe start-up from -40 °C
during transport	-40 +85 °C
during storage	-40 +85 °C
environmental category according to IEC 60721	Climate class 3K3, 5 95% no condensation
Mechanics	
type of electrical connection	push-in terminals
• at input	L1, L2, L3, PE: push-in for 0.5 10 mm ²
at output	+1, +2, -1, -2, -3: push-in for 0.5 6 mm ²
for auxiliary contacts	13, 14 (alarm signal): 1 push-in terminal each for 0.2 1.5 mm ²
width of the enclosure	70 mm
height of the enclosure	135 mm
depth of the enclosure	155 mm
required spacing	
• top	45 mm
• bottom	45 mm
● left	0 mm
• right	0 mm
net weight	1.5 kg
product feature of the enclosure housing can be lined up	Yes
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15
electrical accessories	Redundancy module
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless
S.OSITIMOTI	otherwise specified)

