SIEMENS

Data sheet



SITOP PSU6200/3AC/48VDC/20A

SITOP PSU6200 48 V/20 A stabilized power supply input: 400 - 500 V AC output: 48 V DC/20 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	18 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 	1.5 A
 at rated input voltage 500 V 	1.2 A
current limitation of inrush current at 25 °C maximum	10 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 	0.2 %
 on slow fluctuation of ohm loading 	0.1 %
residual ripple	
• maximum	100 mV
• typical	80 mV
voltage peak	
• maximum	80 mV

• typical	30 mV
adjustable output voltage	48 56 V
product function output voltage adjustable	Yes
type of output voltage setting	via potentiometer; max. 960 W (1152 W up to 45°C)
display version for normal operation	Green LED for 48 V OK
type of signal at output	Electronic contact (NO contact, contact rating 30 V DC/0.1 A) for DC O.K. or diagnostic interface
behavior of the output voltage when switching on	Overshoot of Vout < 1 %
response delay maximum	0.5 s
voltage increase time of the output voltage	
• typical	200 ms
output current	
• rated value	20 A
rated range	0 20 A; 24 A up to +45°C; +60 +70 °C: Derating 3%/K
supplied active power typical	960 W
short-term overload current	
 on short-circuiting during the start-up typical 	30 A
at short-circuit during operation typical	30 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	96.6 %
power loss [W]	
 at rated output voltage for rated value of the output current typical 	32 W
 during no-load operation maximum 	4.5 W
Closed-loop control	
relative control precision of the output voltage at load step of resistive load 10/90/10 % typical	4 %
setting time	
 load step 10 to 90% typical 	4 ms
 load step 90 to 10% typical 	10 ms
• maximum	10 ms
Protection and monitoring	
design of the overvoltage protection	< 60 V
response value current limitation typical	24 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	
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	No
• cCSAus, Class 1, Division 2	No
• ATEX	No
certificate of suitability	
• IECEx	No
NEC Class 2	No



FM registration	No; -
type of certification CB-certificate	Yes
certificate of suitability	
EAC approval	Yes
KC approval	No
• C-Tick	No
Regulatory Compliance Mark (RCM)	No
certificate of suitability shipbuilding approval	No
shipbuilding approval	in process: DNV GL, ABS
Marine classification association	p. 000000 2111 02,7120
American Bureau of Shipping Europe Ltd. (ABS)	No
French marine classification society (BV)	No
• DNV GL	No
Lloyds Register of Shipping (LRS)	No
Nippon Kaiji Kyokai (NK)	No
EMC	110
standard	
for emitted interference	EN 55022 Class B
for mains harmonics limitation	EN 61000-3-2
for interference immunity	EN 61000-5-2 EN 61000-6-2
	EN 01000-0-2
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 starsport during storage	-40 +85 °C
environmental category acc. to IEC 60721	Climate class 3K3, 5 95% no condensation
Mechanics	Olimate dass site, 5 55% no condensation
	Duch in terminals
type of electrical connection	Push-in terminals
• at input	L1, L2, L3, PE: Pushln for 0.5 10 mm ²
• at output	+1, +2, -1, -2, -3: Pushin for 0.75 16 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	95 mm 135 mm
height of the enclosure	
depth of the enclosure	155 mm
required spacing	45
• top	45 mm
• bottom	45 mm 0 mm
• left	
• right	0 mm
net weight	2.1 kg
product feature of the enclosure housing can be lined up	Yes
fastening method electrical accessories	Snaps onto DIN rail EN 60715 35x7.5/15
	Buffer module, redundancy module Identification labels SIMATIC ET 200SP 6ES7193-6LF30-0AW0
mechanical accessories	
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)



