



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	
<ul style="list-style-type: none"> <li>• minimum rated value</li> <li>• maximum rated value</li> <li>• initial value</li> <li>• full-scale value</li> </ul>	400 V 500 V 323 V 576 V
input voltage	
<ul style="list-style-type: none"> <li>• at DC</li> </ul>	450 ... 600 V
operating condition of the mains buffering	at $V_{in} = 400\text{ V}$
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 $V_{in} = 400\text{ V}$
line frequency	
<ul style="list-style-type: none"> <li>• 1 rated value</li> <li>• 2 rated value</li> </ul>	50 Hz 60 Hz
line frequency	47 ... 63 Hz
input current	
<ul style="list-style-type: none"> <li>• at rated input voltage 400 V</li> <li>• at rated input voltage 500 V</li> </ul>	0.77 A 0.62 A
current limitation of inrush current at 25 °C maximum	17 A
fuse protection type	
<ul style="list-style-type: none"> <li>• in the feeder</li> </ul>	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	
<ul style="list-style-type: none"> <li>• at output 1 at DC rated value</li> </ul>	48 V
relative overall tolerance of the voltage	3 %
relative control precision of the output voltage	
<ul style="list-style-type: none"> <li>• on slow fluctuation of input voltage</li> <li>• on slow fluctuation of ohm loading</li> </ul>	0.3 % 0.3 %
residual ripple	
<ul style="list-style-type: none"> <li>• maximum</li> <li>• typical</li> </ul>	40 mV 10 mV
voltage peak	
<ul style="list-style-type: none"> <li>• maximum</li> </ul>	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
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 $V_{out} < 2\%$
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	
• bridging of equipment	Yes; switchable characteristic
number of parallel-switched equipment resources for increasing the power	2
<b>Efficiency</b>	
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
<b>Closed-loop control</b>	
relative control precision of the output voltage at load step of resistive load 10/90/10 % typical	3 %
setting time	
• load step 10 to 90% typical	5 ms
• load step 90 to 10% typical	5 ms
• maximum	5 ms
<b>Protection and monitoring</b>	
design of the overvoltage protection	< 60 V
response value current limitation 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 % I <sub>out</sub> rated up to 5 s/min
<b>Safety</b>	
galvanic isolation between input and output	Yes
galvanic isolation	Safety extra low output voltage $V_{out}$ according to EN 60950-1
operating resource protection class	Class I
leakage current	
• maximum	3.5 mA
protection class IP	IP20
<b>Approvals</b>	
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. 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
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	No
shipbuilding approval	in process: DNV GL, ABS
Marine classification association	
• 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

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 acc. to IEC 60721	Climate class 3K3, 5 ... 95% no condensation

#### Mechanics

type of electrical connection	Push-in terminals
• at input	L1, L2, L3, PE: PushIn for 0.5 ... 10 mm <sup>2</sup>
• at output	+1, +2, -1, -2, -3: PushIn for 0.5 ... 6 mm <sup>2</sup>
• for auxiliary contacts	13, 14 (alarm signal): 1 push-in terminal each for 0.2 ... 1.5 mm <sup>2</sup>
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 otherwise specified)

