



SITOP PSU6200/1AC/48VDC/5A

SITOP PSU6200 5 A stabilized power supply input: 120/230 V AC (110-240 V DC)
output: 48 V DC/5 A with diagnostic interface

input	
type of the power supply network	1-phase AC or DC
supply voltage at AC minimum rated value	120 ... 240 V
supply voltage at AC maximum rated value	
supply voltage at AC initial value	85 ... 264 V
supply voltage at AC full-scale value	
supply voltage at DC	110 ... 240 V
input voltage at DC	85 ... 275 V
wide range input	Yes
overvoltage overload capability	300 V AC for 30 s
buffering time for rated value of the output current in the event of power failure minimum	46 ms
operating condition of the mains buffering	at $V_{in} = 240\text{ V}$
line frequency	50/60 Hz
line frequency initial value	47 ... 63 Hz
line frequency full-scale value	
input current	
• at rated input voltage 120 V	2.2 A
• at rated input voltage 240 V	1.2 A
current limitation of inrush current at 25 °C maximum	6 A
fuse protection type	5 A
fuse protection type in the feeder	Circuit breaker from 4 A characteristic C/6 A characteristic B to 10 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
output voltage adjustable	Yes; via potentiometer
adjustable output voltage initial value	48 V
adjustable output voltage full-scale value	56 V; max. 240 W (288 W up to 45°C)
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	0.1 %
residual ripple	
• maximum	50 mV
• typical	30 mV
voltage peak	

<ul style="list-style-type: none"> • maximum 	60 mV
<ul style="list-style-type: none"> • typical 	40 mV
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	
<ul style="list-style-type: none"> • typical 	250 ms
output current	
<ul style="list-style-type: none"> • rated value 	5 A
<ul style="list-style-type: none"> • rated range 	0 ... 5 A; 6 A up to +45°C; +60 ... +70 °C: Derating 3%/K
supplied active power typical	240 W
short-term overload current	
<ul style="list-style-type: none"> • on short-circuiting during the start-up typical 	6 A
<ul style="list-style-type: none"> • at short-circuit during operation typical 	6 A
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 in percent	93.9 %
power loss [W]	
<ul style="list-style-type: none"> • at rated output voltage for rated value of the output current typical 	15 W
<ul style="list-style-type: none"> • during no-load operation maximum 	2.4 W
closed-loop control	
relative control precision of the output voltage at load step of resistive load 10/90/10 % typical	1 %
setting time	
<ul style="list-style-type: none"> • load step 10 to 90% typical 	4 ms
<ul style="list-style-type: none"> • load step 90 to 10% typical 	4 ms
<ul style="list-style-type: none"> • maximum 	6 ms
protection and monitoring	
design of the overvoltage protection	< 60 V
property of the output short-circuit proof	Yes
design of short-circuit protection	Shutdown and periodic restart attempts
<ul style="list-style-type: none"> • typical 	6 A
overcurrent overload capability	
<ul style="list-style-type: none"> • in normal operation 	overload capability 150 % I_{out} rated up to 5 s/min
safety	
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	
<ul style="list-style-type: none"> • maximum 	3.5 mA
protection class IP	IP20
standard	
<ul style="list-style-type: none"> • for emitted interference 	EN 55022 Class B
<ul style="list-style-type: none"> • for mains harmonics limitation 	EN 61000-3-2
<ul style="list-style-type: none"> • for interference immunity 	EN 61000-6-2
standards, specifications, approvals	
certificate of suitability	
<ul style="list-style-type: none"> • CE marking 	Yes
<ul style="list-style-type: none"> • 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)
<ul style="list-style-type: none"> • 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)
<ul style="list-style-type: none"> • EAC approval 	Yes
<ul style="list-style-type: none"> • Regulatory Compliance Mark (RCM) 	Yes
<ul style="list-style-type: none"> • NEC Class 2 	No
<ul style="list-style-type: none"> • SEMI F47 	Yes
type of certification	

<ul style="list-style-type: none"> • BIS • CB-certificate 	<p>Yes; R-41188271</p> <p>Yes</p>
standards, specifications, approvals hazardous environments	
certificate of suitability	
<ul style="list-style-type: none"> • IECEx • ATEX • ULhazloc approval • cCSAus, Class 1, Division 2 • FM registration 	<p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p>
standards, specifications, approvals marine classification	
shipbuilding approval	Yes
Marine classification association	
<ul style="list-style-type: none"> • American Bureau of Shipping Europe Ltd. (ABS) • French marine classification society (BV) • Det Norske Veritas (DNV) • Lloyds Register of Shipping (LRS) 	<p>Yes</p> <p>No</p> <p>No; in preparation</p> <p>No</p>
standards, specifications, approvals Environmental Product Declaration	
Environmental Product Declaration	Yes
Global Warming Potential [CO2 eq]	
<ul style="list-style-type: none"> • total • during manufacturing • during operation • after end of life 	<p>486.8 kg</p> <p>16.8 kg</p> <p>469.4 kg</p> <p>0.42 kg</p>
ambient conditions	
ambient temperature	
<ul style="list-style-type: none"> • during operation • during transport • during storage 	<p>-30 ... +70 °C; with natural convection a monotonically increasing start-up from -25 °C, safe start-up from -40 °C</p> <p>-40 ... +85 °C</p> <p>-40 ... +85 °C</p>
environmental category according to IEC 60721	Climate class 3K3, 5 ... 95% no condensation
connection method	
type of electrical connection	push-in terminals
<ul style="list-style-type: none"> • at input • at output • for auxiliary contacts 	<p>L1/+, L2/N/-, PE: push-in for 0.5 ... 4 mm² single-core/finely stranded</p> <p>+1, +2, -1, -2, -3: push-in for 0.5 ... 2.5 mm²</p> <p>13, 14 (alarm signal): 1 push-in terminal each for 0.2 ... 1.5 mm²</p>
mechanical data	
width × height × depth of the enclosure	45 × 135 × 125 mm
installation width × mounting height	45 × 225 mm
required spacing	
<ul style="list-style-type: none"> • top • bottom • left • right 	<p>45 mm</p> <p>45 mm</p> <p>0 mm</p> <p>0 mm</p>
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15
<ul style="list-style-type: none"> • standard rail mounting • S7 rail mounting • wall mounting 	<p>Yes</p> <p>No</p> <p>No</p>
housing can be lined up	Yes
net weight	0.9 kg
accessories	
electrical accessories	Buffer module, redundancy module
mechanical accessories	Identification labels SIMATIC ET 200SP 6ES7193-6LF30-0AW0
further information internet links	
internet link	
<ul style="list-style-type: none"> • to web page: selection aid TIA Selection Tool • to website: Industrial communication • to website: CAX-Download-Manager 	<p>https://siemens.com/tst</p> <p>http://www.siemens.com/simatic-net</p> <p>http://www.siemens.com/cax</p>
additional information	
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)
security information	

security information

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Classifications

	Version	Classification
eClass	12	27-04-07-01
eClass	9.1	27-04-07-01
eClass	9	27-04-07-01
eClass	8	27-04-90-02
eClass	7.1	27-04-90-02
eClass	6	27-04-90-02
ETIM	9	EC002540
ETIM	8	EC002540
ETIM	7	EC002540
IDEA	4	4130
UNSPSC	15	39-12-10-04

Approvals Certificates

General Product Approval



[Manufacturer Declaration](#)

[Declaration of Conformity](#)



General Product Approval

Marine / Shipping

Environment



[BIS CRS](#)



last modified:

3/25/2024