



SITOP PSU6200/1AC/12VDC/7A

SITOP PSU6200 12V/7 A Stabilized power supply Input: 120 - 230 V AC, (120 - 240 V DC) Output: 12 V DC/ 7 A

Input	
type of the power supply network	1-phase AC or DC
supply voltage at AC	
• minimum rated value	120 V
• maximum rated value	230 V
• initial value	85 V
• full-scale value	264 V
supply voltage	
• at DC	120 ... 240 V
input voltage	
• at DC	99 ... 275 V
design of input wide range input	Yes
overvoltage overload capability	300 V AC for 30 s
operating condition of the mains buffering	at $V_{in} = 230\text{ V}$
buffering time for rated value of the output current in the event of power failure minimum	90 ms
operating condition of the mains buffering	at $V_{in} = 230\text{ V}$
line frequency	
• 1 rated value	50 Hz
• 2 rated value	60 Hz
line frequency	47 ... 63 Hz
input current	
• at rated input voltage 120 V	1.4 A
• at rated input voltage 230 V	0.8 A
current limitation of inrush current at 25 °C maximum	29 A
fuse protection type	5 A
• in the feeder	Circuit breaker 4 A characteristic C or 6 A characteristic B/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	12 V
output voltage	
• at output 1 at DC rated value	12 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	30 mV

<ul style="list-style-type: none"> • typical 	20 mV
voltage peak	
<ul style="list-style-type: none"> • maximum • typical 	100 mV 60 mV
adjustable output voltage	12 ... 15.5 V
product function output voltage adjustable	Yes
type of output voltage setting	via potentiometer; max. 84 W (100 W up to 45°C)
display version for normal operation	Green LED for 24 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 	100 ms
output current	
<ul style="list-style-type: none"> • rated value • rated range 	7 A 0 ... 7 A; 8.4 A up to +45°C; +60 ... +70 °C: Derating 3%/K
supplied active power typical	84 W
short-term overload current	
<ul style="list-style-type: none"> • on short-circuiting during the start-up typical • at short-circuit during operation typical 	8.4 A 8.4 A
product feature	
<ul style="list-style-type: none"> • bridging of equipment 	No
Efficiency	
efficiency in percent	87.1 %
power loss [W]	
<ul style="list-style-type: none"> • at rated output voltage for rated value of the output current typical • during no-load operation maximum 	13 W 1.8 W
Closed-loop control	
relative control precision of the output voltage at load step of resistive load 10/90/10 % typical	3 %
setting time	
<ul style="list-style-type: none"> • load step 10 to 90% typical • load step 90 to 10% typical • maximum 	1 ms 1 ms 2 ms
Protection and monitoring	
design of the overvoltage protection	< 20 V
response value current limitation typical	8.4 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_{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
Approvals	
certificate of suitability	
<ul style="list-style-type: none"> • CE marking • UL approval • CSA approval • cCSAus, Class 1, Division 2 • ATEX 	Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1) Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1) No No
certificate of suitability	
<ul style="list-style-type: none"> • IECEx • NEC Class 2 	No No

<ul style="list-style-type: none"> • ULhazloc approval 	No
<ul style="list-style-type: none"> • FM registration 	No
type of certification CB-certificate	Yes
certificate of suitability	
<ul style="list-style-type: none"> • EAC approval 	Yes
<ul style="list-style-type: none"> • C-Tick 	No
<ul style="list-style-type: none"> • Regulatory Compliance Mark (RCM) 	No
certificate of suitability shipbuilding approval	Yes
shipbuilding approval	in process: DNV GL, ABS
Marine classification association	
<ul style="list-style-type: none"> • American Bureau of Shipping Europe Ltd. (ABS) 	No
<ul style="list-style-type: none"> • French marine classification society (BV) 	No
<ul style="list-style-type: none"> • DNV GL 	No
<ul style="list-style-type: none"> • Lloyds Register of Shipping (LRS) 	No
<ul style="list-style-type: none"> • Nippon Kaiji Kyokai (NK) 	No
EMC	
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
environmental conditions	
ambient temperature	
<ul style="list-style-type: none"> • during operation 	-30 ... +70 °C; with natural convection a monotonically increasing start-up from -25 °C, safe start-up from -40 °C
<ul style="list-style-type: none"> • during transport 	-40 ... +85 °C
<ul style="list-style-type: none"> • 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
<ul style="list-style-type: none"> • at input 	L1/+, L2/N/-, PE:PushIn for 0.5 ... 4 mm ² single-core/finely stranded
<ul style="list-style-type: none"> • at output 	+1, +2, -1, -2, -3: PushIn for 0.5 ... 2.5 mm ²
<ul style="list-style-type: none"> • for auxiliary contacts 	13, 14 (alarm signal): 1 push-in terminal each for 0.2 ... 1.5 mm ²
width of the enclosure	35 mm
height of the enclosure	135 mm
depth of the enclosure	125 mm
required spacing	
<ul style="list-style-type: none"> • top 	45 mm
<ul style="list-style-type: none"> • bottom 	45 mm
<ul style="list-style-type: none"> • left 	0 mm
<ul style="list-style-type: none"> • right 	0 mm
net weight	0.7 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
mechanical accessories	Identification labels SIMATIC ET 200SP 6ES7193-6LF30-0AW0
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

