



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	
Input	1-phase AC or DC
Rated voltage value $V_{in}$ rated	120 ... 240 V
Voltage range AC supply voltage	85 ... 264 V
<ul style="list-style-type: none"> <li>at DC input voltage</li> </ul>	110 ... 240 V
<ul style="list-style-type: none"> <li>at DC input voltage</li> </ul>	85 ... 275 V
Wide-range input	Yes
Overvoltage resistance	300 V AC for 30 s
Mains buffering	at $V_{in} = 230$ V
Mains buffering at $I_{out}$ rated, min.	46 ms; at $V_{in} = 230$ V
Rated line frequency 1	50 Hz
Rated line frequency 2	60 Hz
Rated line range	47 ... 63 Hz
input current	
<ul style="list-style-type: none"> <li>at rated input voltage 120 V</li> </ul>	2.2 A
<ul style="list-style-type: none"> <li>at rated input voltage 230 V</li> </ul>	1.2 A
Switch-on current limiting (+25 °C), max.	6 A
Built-in incoming fuse	5 A
Protection in the mains power input (IEC 898)	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	
Output	Controlled, isolated DC voltage
number of outputs	1
Rated voltage $V_{out}$ DC	48 V
<ul style="list-style-type: none"> <li>output voltage at output 1 at DC rated value</li> </ul>	48 V
Total tolerance, static $\pm$	3 %
Static mains compensation, approx.	0.1 %
Static load balancing, approx.	0.1 %
Residual ripple peak-peak, max.	50 mV
Residual ripple peak-peak, typ.	30 mV
Spikes peak-peak, max. (bandwidth: 20 MHz)	60 mV
Spikes peak-peak, typ. (bandwidth: 20 MHz)	40 mV
Adjustment range	48 ... 56 V
product function output voltage adjustable	Yes
Output voltage setting	via potentiometer; max. 240 W (288 W up to 45°C)
Status display	Green LED for 48 V OK
Signaling	Electronic contact (NO contact, contact rating 30 V DC/0.1 A) for DC

	O.K. or diagnostic interface
On/off behavior	Overshoot of Vout < 2 %
Startup delay, max.	0.5 s
Voltage rise, typ.	250 ms
Rated current value Iout rated	5 A
Current range	0 ... 5 A
• Note	6 A up to +45°C; +60 ... +70 °C: Derating 3%/K
supplied active power typical	240 W
short-term overload current	
• on short-circuiting during the start-up typical	6 A
• at short-circuit during operation typical	6 A
Parallel switching for enhanced performance	Yes; switchable characteristic
Numbers of parallel switchable units for enhanced performance	2
<b>Efficiency</b>	
Efficiency at Vout rated, Iout rated, approx.	93.9 %
Power loss at Vout rated, Iout rated, approx.	15 W
power loss [W] during no-load operation maximum	2.4 W
<b>Closed-loop control</b>	
Dynamic load smoothing (Iout: 10/90/10 %), Uout ± typ.	1 %
Load step setting time 10 to 90%, typ.	4 ms
Load step setting time 90 to 10%, typ.	4 ms
setting time maximum	6 ms
<b>Protection and monitoring</b>	
Output overvoltage protection	< 60 V
Current limitation, typ.	6 A
property of the output short-circuit proof	Yes
Short-circuit protection	Shutdown and periodic restart attempts
overcurrent overload capability in normal operation	overload capability 150 % Iout rated up to 5 s/min
<b>Safety</b>	
Primary/secondary isolation	Yes
galvanic isolation	Safety extra low output voltage Vout according to EN 60950-1
Protection class	Class I
leakage current	
• maximum	3.5 mA
Degree of protection (EN 60529)	IP20
<b>Approvals</b>	
CE mark	Yes
UL/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/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)
certificate of suitability cCSAus, Class 1, Division 2	No
certificate of suitability ATEX	No
certificate of suitability	
• IECEx	No
• NEC Class 2	No
• ULhazloc approval	No
FM approval	No
CB approval	Yes
certificate of suitability	
• EAC approval	Yes
Approvals	No
Marine approval	Yes
Marine approval	in process: DNV GL, ABS
Marine classification association American Bureau of Shipping Europe Ltd. (ABS)	No
Marine classification association French marine classification society (BV)	No
Marine classification association DNV GL	No
Marine classification association Lloyds Register of	No

Shipping (LRS)	
Marine classification association Nippon Kaiji Kyokai (NK)	No
<b>EMC</b>	
Emitted interference	EN 55022 Class B
Supply harmonics limitation	EN 61000-3-2
Noise immunity	EN 61000-6-2
<b>environmental conditions</b>	
ambient temperature	
• during operation	-30 ... +70 °C
— Note	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
Humidity class according to EN 60721	Climate class 3K3, 5 ... 95% no condensation
<b>Mechanics</b>	
Connection technology	Push-in terminals
Connections	
• Supply input	L1/+, L2/N/-, PE:PushIn for 0.5 ... 4 mm <sup>2</sup> single-core/finely stranded
• Output	+1, +2, -1, -2, -3: PushIn for 0.5 ... 2.5 mm <sup>2</sup>
• Auxiliary	13, 14 (alarm signal): 1 push-in terminal each for 0.2 ... 1.5 mm <sup>2</sup>
width of the enclosure	45 mm
height of the enclosure	135 mm
depth of the enclosure	125 mm
required spacing	
• top	45 mm
• bottom	45 mm
• left	0 mm
• right	0 mm
Weight, approx.	0.9 kg
product feature of the enclosure housing can be lined up	Yes
Installation	Snaps onto DIN rail EN 60715 35x7.5/15
electrical accessories	Buffer module, 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)

