

SITOP PSU6200/1AC/48VDC/5A
 SITOP PSU6200 5 A Stabilized power supply Input: 120/230 V AC
 Output: 48 V DC/5 A With diagnostics 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"> at DC 	110 ... 240 V
input voltage	
<ul style="list-style-type: none"> at DC 	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"> at rated input voltage 120 V 	2.2 A
<ul style="list-style-type: none"> at rated input voltage 230 V 	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
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 $V_{out} < 2$ %
Startup delay, max.	0.5 s
Voltage rise, typ.	250 ms
Rated current value I_{out} 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
product feature parallel switching of outputs	can be set with DIP switch
Parallel switching for enhanced performance	Yes; switchable characteristic
Numbers of parallel switchable units for enhanced performance	2

Efficiency	
Efficiency at V_{out} rated, I_{out} rated, approx.	93.9 %
Power loss at V_{out} rated, I_{out} rated, approx.	15 W
power loss [W] during no-load operation maximum	2.4 W

Closed-loop control	
Dynamic load smoothing (I_{out} : 10/90/10 %), $U_{out} \pm$ 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

Protection and monitoring

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 % I _{out} rated up to 5 s/min

Safety

Primary/secondary isolation	Yes
galvanic isolation	Safety extra low output voltage V _{out} according to EN 60950-1
Protection class	Class I
leakage current	
• maximum	3.5 mA
Degree of protection (EN 60529)	IP20

Approvals

CE mark	Yes
UL/cUL (CSA) approval	cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)
Explosion protection	-
certificate of suitability NEC Class 2	No
FM approval	-
CB approval	Yes
Marine approval	in process: DNV GL, ABS

EMC

Emitted interference	EN 55022 Class B
Supply harmonics limitation	EN 61000-3-2
Noise immunity	EN 61000-6-2

environmental conditions

ambient temperature	
• during operation	-25 ... +70 °C
— Note	with natural convection
• during transport	-40 ... +85 °C
• during storage	-40 ... +85 °C
Humidity class according to EN 60721	Climate class 3K3, 5 ... 95% no condensation

Mechanics

Connection technology	Push-in terminals
Connections	
• Supply input	L1/+, L2/N/-; PE PushIn for 0.5 ... 4 mm ² single-core/finely stranded
• Output	+1, +2, -1, -2, -3: PushIn for 0.5 ... 2.5 mm ²

• Auxiliary	13, 14 (alarm signal): 1 push-in terminal each for 0.2 ... 1.5 mm ²
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 for side-by-side mounting	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)