

SITOP PSU6200 12 V/2 A
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 AC, (120 - 240 V DC) Output: 12 V DC/2 A



Input	
Input	1-phase AC or DC
Rated voltage value V_{in} rated	120 ... 230 V
Voltage range AC	85 ... 264 V
Supply voltage	
• at DC	120 ... 240 V
Input voltage	
• at DC	110 ... 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.	150 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	
• at rated input voltage 120 V	0.45 A
• at rated input voltage 230 V	0.25 A
Switch-on current limiting (+25 °C), max.	32 A

Built-in incoming fuse	3.15 A
Protection in the mains power input (IEC 898)	Circuit breaker from 4 A characteristic C/6 A characteristic B to 16 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	12 V
Total tolerance, static \pm	3 %
Static mains compensation, approx.	0.3 %
Static load balancing, approx.	0.3 %
Residual ripple peak-peak, max.	30 mV
Residual ripple peak-peak, typ.	20 mV
Spikes peak-peak, max. (bandwidth: 20 MHz)	20 mV
Spikes peak-peak, typ. (bandwidth: 20 MHz)	10 mV
Adjustment range	10.5 ... 12.9 V
Product function Output voltage adjustable	Yes
Output voltage setting	via potentiometer; max. 24 W
Status display	Green LED for 24 V OK
On/off behavior	Overshoot of V_{out} approx. 3 %
Startup delay, max.	1 s
Voltage rise, typ.	50 ms
Rated current value I_{out} rated	2 A
Current range	0 ... 2 A
• Note	+60 ... +70 °C: Derating 2.5%/K
Supplied active power typical	24 W
Short-term overload current	
• on short-circuiting during the start-up typical	2 A
• at short-circuit during operation typical	2 A

Efficiency

Efficiency at V_{out} rated, I_{out} rated, approx.	83.3 %
Power loss at V_{out} rated, I_{out} rated, approx.	5 W
Power loss [W] during no-load operation maximum	0.8 W

Closed-loop control

Dynamic load smoothing (I_{out} : 10/90/10 %), $U_{out} \pm$ typ.	4 %
Load step setting time 10 to 90%, typ.	2 ms
Load step setting time 90 to 10%, typ.	2 ms
Setting time maximum	3 ms

Protection and monitoring

Output overvoltage protection	< 20 V
Current limitation, typ.	2.8 A

Property of the output Short-circuit proof	Yes
Short-circuit protection	Shutdown and periodic restart attempts
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	-
FM approval	-
CB approval	Yes
Regulatory Compliance Mark (RCM)	No
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 ... 2.5 mm ² single-core/finely stranded
• Output	+1, -1, -2: PushIn for 0.5 ... 2.5 mm ²
• Auxiliary	-
Width of the enclosure	25 mm
Height of the enclosure	100 mm
Depth of the enclosure	88 mm
Required spacing	
• top	50 mm

<ul style="list-style-type: none"> • bottom • left • right 	<p>50 mm</p> <p>0 mm</p> <p>0 mm</p>
Product feature of the enclosure housing for side-by-side mounting	Yes
Installation	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)