

SITOP PSU6200 24 V/2,5 A  
 SITOP PSU6200 24 V/2.5 A Stabilized power supply Input: 120 - 230 V AC, (120 - 240 V DC) Output: 24 V DC/2.5 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	1.1 A
• at rated input voltage 230 V	0.6 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	24 V
Total tolerance, static $\pm$	3 %
Static mains compensation, approx.	0.1 %
Static load balancing, approx.	0.1 %
Residual ripple peak-peak, max.	30 mV
Residual ripple peak-peak, typ.	20 mV
Spikes peak-peak, max. (bandwidth: 20 MHz)	30 mV
Spikes peak-peak, typ. (bandwidth: 20 MHz)	20 mV
Adjustment range	22.2 ... 26.4 V
Product function Output voltage adjustable	Yes
Output voltage setting	via potentiometer; max. 60 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.	100 ms
Rated current value $I_{out}$ rated	2.5 A
Current range	0 ... 2.5 A
• Note	+60 ... +70 °C: Derating 1.5%/K
Supplied active power typical	60 W
Short-term overload current	
• on short-circuiting during the start-up typical	2.5 A
• at short-circuit during operation typical	2.5 A

### Efficiency

Efficiency at $V_{out}$ rated, $I_{out}$ rated, approx.	89 %
Power loss at $V_{out}$ rated, $I_{out}$ rated, approx.	7 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.	3 %
Load step setting time 10 to 90%, typ.	1 ms
Load step setting time 90 to 10%, typ.	1 ms
Setting time maximum	2 ms

### Protection and monitoring

Output overvoltage protection	< 32 V
Current limitation, typ.	3.1 A

Property of the output Short-circuit proof	Yes
Short-circuit protection	Shutdown and periodic restart attempts
<b>Safety</b>	
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
<b>Approvals</b>	
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
<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	-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
<b>Mechanics</b>	
Connection technology	Push-in terminals
Connections	
• Supply input	L1+, L2/N/-; PE PushIn for 0.5 ... 2.5 mm <sup>2</sup> single-core/finely stranded
• Output	+1, -1, -2: PushIn for 0.5 ... 2.5 mm <sup>2</sup>
• Auxiliary	-
Width of the enclosure	40 mm
Height of the enclosure	100 mm
Depth of the enclosure	88 mm
Required spacing	
• top	50 mm

<ul style="list-style-type: none"> <li>• bottom</li> <li>• left</li> <li>• right</li> </ul>	50 mm 0 mm 0 mm
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)