

SITOP PSU6200/1AC/24VDC/3.7A/NECLASS2
 SITOP PSU6200 3.7 A NEC class II Stabilized power supply Input:
 120 - 230 V AC, (120 - 240 V DC) Output: 24 V DC/3.7 A



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 	120 ... 240 V
input voltage	
<ul style="list-style-type: none"> • at DC 	99 ... 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.	90 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 	1.5 A
<ul style="list-style-type: none"> • at rated input voltage 230 V 	0.9 A
Switch-on current limiting (+25 °C), max.	29 A

Built-in incoming fuse	3.15 A
Protection in the mains power input (IEC 898)	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

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.	0.2 %
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)	100 mV
Spikes peak-peak, typ. (bandwidth: 20 MHz)	60 mV
Adjustment range	24 ... 28 V
product function output voltage adjustable	Yes
Output voltage setting	via potentiometer; max. 89 W (106 W up to 45°C)
Status display	Green LED for 24 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.	100 ms
Rated current value I_{out} rated	3.7 A
Current range	0 ... 3.7 A
• Note	+60 ... +70 °C: Derating 1.5%/K
supplied active power typical	89 W
short-term overload current	
• on short-circuiting during the start-up typical	3.7 A
• at short-circuit during operation typical	3.7 A

Efficiency

Efficiency at V_{out} rated, I_{out} rated, approx.	89.3 %
Power loss at V_{out} rated, I_{out} rated, approx.	11 W
power loss [W] during no-load operation maximum	2.2 W

Closed-loop control

Dynamic load smoothing (I_{out} : 10/90/10 %), $U_{out} \pm$ typ.	2 %
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	< 32 V
Current limitation, typ.	3.7 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	-
certificate of suitability NEC Class 2	Yes
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 ... 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	35 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.	0.7 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)