



Figure similar

SITOP PSU6200/1AC/DC24V/20A/EX

SITOP PSU6200 Ex 20 A stabilized power supply input: 120/230 V AC output: 24 V DC/20 A with diagnostic interface with painted printed circuit boards

Input	
Input	1-phase AC or DC
Rated voltage value V_{in} rated	120 ... 230 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.	25 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 	4.3 A
<ul style="list-style-type: none"> at rated input voltage 230 V 	2.3 A
Switch-on current limiting (+25 °C), max.	12 A
Built-in incoming fuse	10 A
Protection in the mains power input (IEC 898)	Circuit breaker from 6 A characteristic B to 16 A characteristic C or circuit breaker 3RV2011-1HA10 (setting 8A) or 3RV2711-1HD10 (UL 489)
Output	
Output	Controlled, isolated DC voltage
number of outputs	1
Rated voltage V_{out} DC	24 V
<ul style="list-style-type: none"> output voltage at output 1 at DC rated value 	24 V
Total tolerance, static \pm	3 %
Static mains compensation, approx.	0.2 %
Static load balancing, approx.	0.2 %
Residual ripple peak-peak, max.	80 mV
Residual ripple peak-peak, typ.	50 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. 480 W (576 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 Vout approx. 3 %
Startup delay, max.	0.5 s
Voltage rise, typ.	100 ms
Rated current value Iout rated	20 A
Current range	0 ... 20 A
• Note	24 A up to +45°C; +60 ... +70 °C: Derating 3%/K
supplied active power typical	480 W
short-term overload current	
• on short-circuiting during the start-up typical	30 A
• at short-circuit during operation typical	30 A
Parallel switching for enhanced performance	Yes; switchable characteristic
Numbers of parallel switchable units for enhanced performance	2
Efficiency	
Efficiency at Vout rated, Iout rated, approx.	95.5 %
Power loss at Vout rated, Iout rated, approx.	25 W
power loss [W] during no-load operation maximum	2.6 W
Closed-loop control	
Dynamic load smoothing (Iout: 10/90/10 %), Uout ± typ.	3 %
Load step setting time 10 to 90%, typ.	0.5 ms
Load step setting time 90 to 10%, typ.	0.5 ms
setting time maximum	1 ms
Protection and monitoring	
Output overvoltage protection	< 32 V
Current limitation, typ.	30 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
Safety	
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
Approvals	
CE mark	Yes
Explosion protection	ATEX (EX) II 3G Ex ec nA nC IIC T4 Gc
certificate of suitability NEC Class 2	No
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	-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
Mechanics	
Connection technology	Push-in terminals
Connections	

<ul style="list-style-type: none"> • Supply input • Output • Auxiliary 	L1/+, L2/N/-, PE:PushIn for 0.5 ... 4 mm ² single-core/finely stranded +1, +2, -1, -2, -3: PushIn for 0.5 ... 6 mm ² 13, 14 (alarm signal): 1 push-in terminal each for 0.2 ... 1.5 mm ²
width of the enclosure	70 mm
height of the enclosure	135 mm
depth of the enclosure	155 mm
required spacing	
<ul style="list-style-type: none"> • top 	45 mm
<ul style="list-style-type: none"> • bottom 	45 mm
<ul style="list-style-type: none"> • left 	0 mm
<ul style="list-style-type: none"> • right 	0 mm
Weight, approx.	1.5 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)

