

SITOP PSU6200 24 V3,7 A NEC CLASS II

SITOP PSU6200 3,7A NEC class II Stabilized power supply Input:  
120/230 V AC output: 24 V DC/3.7 A



Input	
Input	1-phase AC or DC
Supply voltage	
• at DC	120 ... 240 V
Rated voltage value $V_{in}$ rated	120 ... 230 V
Voltage range AC	85 ... 264 V
Input voltage	
• at DC	99 ... 275 V
Wide-range input	Yes
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	
• at rated input voltage 120 V	1.5 A
• 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

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 60 V DC/0.1 A) for 24 V 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
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 <ul style="list-style-type: none"> <li>• maximum</li> </ul>	3.5 mA
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	No
CB approval	Yes
Regulatory Compliance Mark (RCM)	No
Marine approval	in process: DNV GL, ABS
Degree of protection (EN 60529)	IP20

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

Operating data	
Ambient temperature <ul style="list-style-type: none"> <li>• during operation</li> <li>— Note</li> <li>• during transport</li> <li>• during storage</li> </ul>	-25 ... +70 °C with natural convection -40 ... +85 °C -40 ... +85 °C
Humidity class according to EN 60721	Climate class 3K3, no condensation

Mechanics	
Connection technology	Push-in terminals
Connections <ul style="list-style-type: none"> <li>• Supply input</li> <li>• Output</li> <li>• Auxiliary</li> </ul>	L1/+, L2/N/-; PE PushIn for 0.5 ... 4 mm <sup>2</sup> single-core/finely stranded +1, +2, -1, -2, -3: PushIn for 0.5 ... 2.5 mm <sup>2</sup> 13, 14 (alarm signal): 1 push-in terminal each for 0.2 ... 1.5 mm <sup>2</sup>
Width of the enclosure	35 mm
Height of the enclosure	135 mm
Depth of the enclosure	125 mm
Required spacing <ul style="list-style-type: none"> <li>• top</li> <li>• bottom</li> <li>• left</li> <li>• right</li> </ul>	45 mm 45 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

Mechanical accessories	Device identification label 20 mm × 7 mm, TI-grey 3RT2900-1SB20
Other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)