

SITOP PSU6200 24 V/5 A
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 AC, (120 - 240 V DC) Output: 24 V DC/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	99 ... 275 V
Wide-range input	Yes
Overvoltage resistance	300 V AC for 30 s
Mains buffering at I_{out} rated, min.	80 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	1.9 A
• at rated input voltage 230 V	1.1 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.	0.1 %
Static load balancing, approx.	0.2 %
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. 120 W (144 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	5 A
Current range	0 ... 5 A
• Note	6 A up to +45°C; +60 ... +70 °C: Derating 2%/K
Supplied active power typical	120 W
Short-term overload current	
• on short-circuiting during the start-up typical	6 A
• at short-circuit during operation typical	6 A
Efficiency	
Efficiency at V_{out} rated, I_{out} rated, approx.	90.2 %
Power loss at V_{out} rated, I_{out} rated, approx.	13 W
Power loss [W] during no-load operation maximum	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.	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.	6 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 % I _{out} rated up to 5 s/min
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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"> • maximum 	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	-
FM approval	-
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"> • during operation — Note • during transport • during storage 	-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"> • 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 ... 2.5 mm ² 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 <ul style="list-style-type: none"> • top • bottom • left 	45 mm 45 mm 0 mm

• right	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	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)