SITOP PSU8200 24 V/5 A SITOP PSU8200 24 V/5 A STABILIZED POWER SUPPLY INPUT: 120/230 V AC OUTPUT: 24 V/5 A DC



1-phase AC
120 V
230 V
Automatic range selection
85 132 V
170 264 V
No
35 ms; at Vin = 120/230 V
50 Hz
60 Hz
47 63 Hz
2.1 A
1.2 A
10 A
0.2 A ² ·s

Built-in incoming fuse	T 3.15 A (not accessible)
Protection in the mains power input (IEC 898)	Recommended miniature circuit breaker at 1-phase operation:
	from 6 A (10 A) characteristic C (B); required at 2-phase
	operation: circuit breaker 2-pole connected or circuit breaker
	3RV2011-1EA10 (setting 3.8 A) or 3RV2711-1ED10 (UL 489) at
	230 V; 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL
	489) at 400/500 V

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Output	
Output	Controlled, isolated DC voltage
Rated voltage Vout DC	24 V
Total tolerance, static ±	3 %
Static mains compensation, approx.	0.1 %
Static load balancing, approx.	0.2 %
Residual ripple peak-peak, max.	50 mV
Spikes peak-peak, max. (bandwidth: 20 MHz)	200 mV
Adjustment range	24 28.8 V
Product function Output voltage adjustable	Yes
Output voltage setting	via potentiometer; max. 120 W
Status display	Green LED for 24 V OK
Signaling	Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK"
On/off behavior	Overshoot of Vout approx. 3 %
Startup delay, max.	1 s
Voltage rise, typ.	30 ms
Rated current value lout rated	5 A
Current range	0 5 A
• Note	As of Ua>24 V: 4% [la]/V [Ua]; at Ue<100 V/<200 V: 80% la rated
Supplied active power typical	120 W
Short-term overload current	
 at short-circuit during operation typical 	15 A
Duration of overloading capability for excess current	
 at short-circuit during operation 	25 ms
Constant overload current	
• on short-circuiting during the start-up typical	6 A
Parallel switching for enhanced performance	Yes; switchable characteristic
Numbers of parallel switchable units for enhanced performance	2
Efficiency	
Efficiency at Vout rated, lout rated, approx.	93 %
Power loss at Vout rated, lout rated, approx.	9 W
Power loss [W] during no-load operation maximum	1.5 W
Closed-loop control	
Dynamic mains compensation (Vin rated ±15 %), max.	0.1 %

Dynamic load smoothing (lout: 50/100/50 %), Uout ± typ.	2 %
Load step setting time 50 to 100%, typ.	0.25 ms
Load step setting time 100 to 50%, typ.	0.5 ms
Dynamic load smoothing (lout: 10/90/10 %), Uout ± typ.	2 %
Load step setting time 10 to 90%, typ.	0.25 ms
Load step setting time 90 to 10%, typ.	0.5 ms
Setting time maximum	1 ms
Protection and monitoring	
Output overvoltage protection	< 33 V
Current limitation, typ.	6 A
Property of the output Short-circuit proof	Yes
Short-circuit protection	Alternatively, constant current characteristic approx. 6 A or latching shutdown
Enduring short circuit current RMS value	
• typical	6 A
Overcurrent overload capability in normal operation	overload capability 150 % lout rated up to 5 s/min
Overload/short-circuit indicator	LED yellow for "overload", LED red for "latching shutdown"
Safety	
Primary/secondary isolation	Yes
Galvanic isolation	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
Protection class	Class I
Leakage current	
• maximum	3.5 mA
• typical	1 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, UL 1604)
Explosion protection	IECEx Ex nA nC IIC T4 Gc; ATEX (EX) II 3G Ex nA nC IIC T4 Gc; cCSAus (CSA C22.2 No. 213, ANSI/ISA-12.12.01) Class I, Div. 2, Group ABCD, T3
FM approval	-
CB approval	Yes
Marine approval	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	

during operation	-25 +70 °C
during transport	-40 +85 °C
during storage	-40 +85 °C
Humidity class according to EN 60721	Climate class 3K3, no condensation

Mechanics	
Connection technology	screw-type terminals
Connections	
Supply input	L, N, PE: 1 screw terminal each for 0.2 2.5 mm² single-core/finely stranded
Output	+, -: 2 screw terminals each for 0.2 2.5 mm ²
Auxiliary	13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm²; 15, 16 (Remote): 1 screw terminal each for 0.14 1.5 mm²
Width of the enclosure	45 mm
Height of the enclosure	125 mm
Depth of the enclosure	125 mm
Required spacing	
 top 	50 mm
• bottom	50 mm
• left	0 mm
• right	0 mm
Weight, approx.	0.8 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
MTBF at 40 °C	1 421 519 h
Other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)