



SITOP PSU200M 10 A STABILIZED POWER SUPPLY
 INPUT: 120/230-500 V AC OUTPUT: 24 V DC/10 A

Technical specifications

Product	SITOP modular
Power supply, type	24 V/10 A
Input	
Input	1-phase and 2-phase AC
Supply voltage / 1 / with AC	120 ... 230 V
Supply voltage / 2 / with AC	230 ... 500 V
Supply voltage	
• Note	Set by means of selector switch on the device
Input voltage / 1 / with AC	85 ... 264 V
Input voltage / 2 / with AC	176 ... 550 V
Wide-range input	Yes
Overvoltage resistance	1300 V _{peak} , 1.3 ms
Mains buffering at lout rated, min.	25 ms
Mains buffering	at V _{in} = 120/230 V, typ. 150 ms at V _{in} = 400 V
Rated line frequency	50 / 60 Hz
Rated line range	47 ... 63 Hz
Input current / at rated input voltage 120 V	4.4 A
Input current / at rated input voltage 230 V	2.4 A
Input current / at rated input voltage 500 V	1.1 A
Switch-on current limiting (+25 °C), max.	35 A

I ² t, max.	4 A ² ·s
Built-in incoming fuse	T 6.3 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
Output	
Output	Controlled, isolated DC voltage
Rated voltage V _{out} DC	24 V
Total tolerance, static ±	3 %
Static mains compensation, approx.	0.1 %
Static load balancing, approx.	0.1 %
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
Status display	Green LED for 24 V OK
Signaling	via signaling module (6EP1961-3BA10)
On/off behavior	Overshoot of V _{out} approx. 3 %
Startup delay, max.	1 s
Voltage rise, typ.	50 ms
Rated current value I _{out} rated	10 A
Current range	0 ... 10 A
• Note	+60 ... +70 °C: Derating 2%/K (at 120 V, 230 V) or 3.5%/K (at 400 V)
Active power supplied / typical	240 W
Constant overload current / on short-circuiting during the start-up / typical	12 A
Short-term overload current / at short-circuit during operation / typical	30 A
Duration of overloading capability for excess current / at short-circuit during operation	25 ms
Parallel switching for enhanced performance	Yes
• Note	switchable characteristic
Numbers of parallel switchable units for enhanced performance	2
Efficiency	
Efficiency at V _{out} rated, I _{out} rated, approx.	87 %
Power loss at V _{out} rated, I _{out} rated, approx.	36 W
Closed-loop control	
Dynamic mains compensation (V _{in} rated ±15 %), max.	0.1 %
Dynamic load smoothing (I _{out} : 50/100/50 %), U _{out} ± typ.	3 %

Load step setting time 50 to 100%, typ.	2 ms
Load step setting time 100 to 50%, typ.	2 ms
Setting time / maximum	5 ms
Protection and monitoring	
Output overvoltage protection	< 35 V
Current limitation, typ.	12 A
Property of the output / Short-circuit proof	Yes
Short-circuit protection	Alternatively, constant current characteristic approx. 12 A or latching shutdown
Enduring short circuit current / RMS value / typical	12 A
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 U _{out} acc. to EN 60950-1 and EN 50178
Protection class	Class I
Leakage current / maximum	3.5 mA
Leakage current / typical	0.32 mA
CE mark	Yes
UL/CSA approval	Yes
UL/cUL (CSA) approval	cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
Explosion protection	-
FM approval	-
CB approval	No
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
• Note	with natural convection
Ambient temperature / during transport	-40 ... +85 °C
Ambient temperature / 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 mm ² single-core/finely stranded

Connections / Output	+ , - : 2 screw terminals each for 0.2 ... 2.5 mm ²
Connections / Auxiliary	-
Width / of the enclosure	90 mm
Height / of the enclosure	125 mm
Depth / of the enclosure	125 mm
Installation width	90 mm
Mounting height	225 mm
Weight, approx.	1.4 kg
Product property / of the enclosure / housing for side-by-side mounting	Yes
Mounting type / wall mounting	No
Mounting type / Standard rail mounting	Yes
Mounting type / S7 rail mounting	No
Installation	Snaps onto DIN rail EN 60715 35x7.5/15
Electrical accessories	Buffer module, signaling module
Other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

letzte Änderung:

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