



SITOP MODULAR 5 STABILIZED POWER SUPPLY INPUT:
120/230-500 V AC OUTPUT: 24 V DC/5 A

Technical specifications

Product	SITOP modular
Power supply, type	24 V/5 A
Input	
Input	1-phase and 2-phase AC
Supply voltage / 1 / at AC	120 V ... 230 V
Supply voltage / 2 / at AC	230 V ... 500 V
• Note	Set by means of selector switch on the device; starting from $V_{in} > 90/180$ V
Input voltage / 1 / at AC	85 V ... 264 V
Input voltage / 2 / at AC	176 V ... 550 V
Wide-range input	Yes
Overvoltage resistance	1300 V _{peak} , 1.3 ms
Mains buffering at I _{out} rated, min.	25 ms
Mains buffering	at $V_{in} = 120/230$ V, typ. 150 ms at $V_{in} = 400$ V
Rated line frequency	50 Hz / 60 Hz
Rated line range	47 Hz ... 63 Hz
Input current / at nominal level of the input voltage 120 V	2.2 A
Input current / at nominal level of the input voltage 230 V	1.2 A
Input current / at nominal level of the input voltage 500 V	0.61 A
Switch-on current limiting (+25 °C), max.	35 A

I ² t, max.	1.7 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
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 V ... 28.8 V
Product feature / 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	5 A
Current range	0 A ... 5 A
• Note	> 60 °C Derating
delivered active power / typ.	120 W
constant overload current / at short-circuit during run-up / typical	5.5 A
short-term overload current / at short-circuit during operation / typical	15 A
Duration of overloading ability for excess current / on short-circuiting during the operational phase	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.	18 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.	5.5 A
Characteristic feature of the output / short-circuit protected	Yes
Short-circuit protection	Alternatively, constant current characteristic approx. 5.5 A or latching shutdown
Enduring short circuit current / Effective level / typical	5.5 A
Overload/short-circuit indicator	LED yellow for "overload", LED red for "latching shutdown"
Safety	
Primary/secondary isolation	Yes
Potential separation	Safety extra low output voltage V_{out} according to EN 60950-1 and EN 50178
Protection class	Class I
stray current / maximum	3.5 mA
stray current / typical	0.25 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	in preparation
FM approval	-
CB approval	No
Marine approval	GL and ABS in process
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 / in operation	-25 °C ... 70 °C
• Note	with natural convection
Ambient temperature / on transport	-40 °C ... 85 °C
Ambient temperature / in storage	-40 °C ... 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	L+, M: 2 screw terminals each for 0.2 ... 2.5 mm ²

Connections / Auxiliary	-
Width / of the housing	70 mm
Height / of the housing	125 mm
Depth / of the housing	125 mm
Installation width	70 mm
Mounting height	225 mm
Weight, approx.	1.2 kg
Product feature / of the housing / housing for side-by-side mounting	Yes
Type of mounting / wall mounting	No
Type of fixing / cap rail mounting	Yes
Type of mounting / S7-300 rail mounting	No
Installation	Snap onto DIN rail EN 60715 35x7.5/15
Electrical accessories	Buffer module, signaling module
Technical drawing of the 6EP1333-3BA00 module. The drawing shows a rectangular module with a DIN rail on the left side. Dimensions are indicated in millimeters (mm). The overall width is 70 mm, the height is 125 mm, and the depth is 125 mm. The mounting height is 225 mm. The installation width is 70 mm. The weight is approximately 1.2 kg. The product feature is 'Yes' for side-by-side mounting. The type of mounting is 'No' for wall mounting, 'Yes' for cap rail mounting, and 'No' for S7-300 rail mounting. The installation is 'Snap onto DIN rail EN 60715 35x7.5/15'. The electrical accessories are 'Buffer module, signaling module'.	

letzte Änderung:

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