



SITOP POWER 3.5,
UNIVERSAL LINE STABILIZED POWER SUPPLY INPUT:
120/230 V AC OUTPUT: 24 V DC/3.5 A S7-200 DESIGN

Technical specifications

Product	SITOP power
Power supply, type	24 V/3.5 A
Input	
Input	1-phase AC
Supply voltage / 1 / at AC / nominal value	120 V
Supply voltage / 2 / at AC / nominal value	230 V
Voltage range	
• Note	Set via wire jumper
Input voltage / 1 / at AC	93 ... 132 V
Input voltage / 2 / at AC	187 ... 264 V
Wide-range input	No
Overvoltage resistance	2.3 × Vin rated, 1.3 ms
Mains buffering at lout rated, min.	20 ms
Mains buffering	at Vin = 187 V
Rated line frequency	50 / 60 Hz
Rated line range	47 ... 63 Hz
Input current / at nominal level of the input voltage 120 V	1.65 A
Input current / at nominal level of the input voltage 230 V	0.95 A
Switch-on current limiting (+25 °C), max.	33 A
Duration of current limiting / at 25 °C / maximum	3 ms

I ² t, max.	1 A ² ·s
Built-in incoming fuse	T 2.5 A/250 V (not accessible)
Protection in the mains power input (IEC 898)	Recommended: 2-pole miniature circuit breaker from 10 A characteristic C or from 6 A characteristic D
Output	
Output	Controlled, isolated DC voltage
Rated voltage V _{out} DC	24 V
Total tolerance, static ±	5 %
Static mains compensation, approx.	0.1 %
Static load balancing, approx.	0.2 %
Residual ripple peak-peak, max.	150 mV
Residual ripple peak-peak, typ.	30 mV
Spikes peak-peak, max. (bandwidth: 20 MHz)	240 mV
Spikes peak-peak, typ. (bandwidth: 20 MHz)	110 mV
Product feature / output voltage adjustable	No
Output voltage setting	-
Status display	-
On/off behavior	No overshoot of V _{out} (soft start)
Startup delay, max.	1 s
Voltage rise, typ.	80 ms
Rated current value I _{out} rated	3.5 A
Current range	0 ... 3.5 A
delivered active power / typ.	84 W
short-term overload current / at short-circuit during run-up / typical	5 A
Duration of overloading ability for excess current / on short-circuiting during the start-up	100 ms
short-term overload current / at short-circuit during operation / typical	5 A
Duration of overloading ability for excess current / on short-circuiting during the operational phase	100 ms
Parallel switching for enhanced performance	Yes
Numbers of parallel switchable units for enhanced performance	5
Efficiency	
Efficiency at V _{out} rated, I _{out} rated, approx.	84 %
Power loss at V _{out} rated, I _{out} rated, approx.	16 W
Closed-loop control	
Dynamic mains compensation (V _{in} rated ±15 %), max.	0.3 %
Dynamic load smoothing (I _{out} : 50/100/50 %), U _{out} ± typ.	3 %
Setting time / maximum	5 ms
Protection and monitoring	
Output overvoltage protection	Yes, according to EN 60950-1

Current limitation, typ.	3.8 A
Characteristic feature of the output / short-circuit protected	Yes
Short-circuit protection	Constant current characteristic up to typ. 14 V, electronic shutdown below that, automatic restart
Enduring short circuit current / Effective level / maximum	4 A
Overload/short-circuit indicator	-
Safety	
Primary/secondary isolation	Yes
Potential separation	Safety extra low output voltage V_{out} according to EN 60950-1
Protection class	Class I
stray current / maximum	3.5 mA
CE mark	Yes
UL/CSA approval	Yes
UL/cUL (CSA) approval	cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289
Explosion protection	-
FM approval	-
CB approval	No
Marine approval	-
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	0 ... 60 °C
• Note	with natural convection
Ambient temperature / on transport	-40 ... +85 °C
Ambient temperature / in 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 0.5 ... 1.5 mm ² single-core/finely stranded
Connections / Output	L+: 1 screw terminal for 0.5 ... 1 mm ² ; M: 2 screw terminals for 0.5 ... 1 mm ²
Connections / Auxiliary	-
Width / of the housing	160 mm
Height / of the housing	80 mm
Depth / of the housing	62 mm
Installation width	160 mm

Mounting height	280 mm
Weight, approx.	0.5 kg
Product feature / of the housing / housing for side-by-side mounting	Yes
Type of mounting / wall mounting	Yes
Type of mounting / standard rail mounting	Yes
Type of mounting / S7-300 rail mounting	No
Installation	Snaps onto DIN rail EN 60715 35x7.5/15, wall mounting
Other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

letzte Änderung:

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