



SITOP POWER 4,
UNIVERSAL LINE STABILIZED POWER SUPPLY INPUT:
120/230 V AC (110-350 V DC) OUTPUT: 24 V DC/4 A

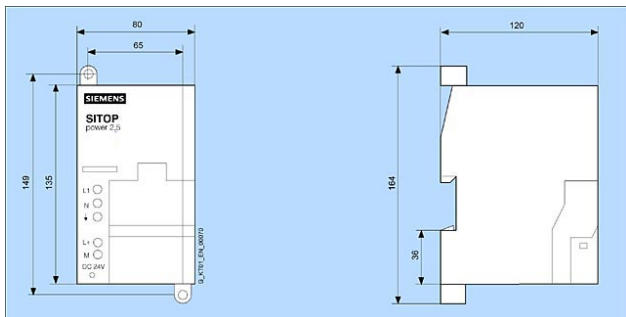
Technical specifications

Product	SITOP power
Power supply, type	24 V/4 A
Input	
Input	1-phase AC or DC
Rated voltage value V_{in} rated	120 ... 230 V
Voltage range	93 ... 264 V
Input voltage / at DC	110 ... 350 V
Wide-range input	Yes
Oversvoltage resistance	$2.3 \times V_{in}$ rated, 1.3 ms
Mains buffering at I_{out} rated, min.	20 ms
Mains buffering	at $V_{in} = 120$ V, > 80 ms (typ. 100 ms) at $V_{in} = 187$ V
Rated line frequency	50 / 60 Hz
Rated line range	47 ... 63 Hz
Input current / at nominal level of the input voltage 120 V	1.8 A
Input current / at nominal level of the input voltage 230 V	1.1 A
Switch-on current limiting (+25 °C), max.	33 A
Duration of current limiting / at 25 °C / maximum	3 ms
I^2t , max.	3.5 A ² ·s
Built-in incoming fuse	T 3.15 A (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 Vout DC	24 V
Total tolerance, static ±	1 %
Static mains compensation, approx.	0.1 %
Static load balancing, approx.	0.2 %
Residual ripple peak-peak, max.	50 mV
Residual ripple peak-peak, typ.	40 mV
Spikes peak-peak, max. (bandwidth: 20 MHz)	100 mV
Spikes peak-peak, typ. (bandwidth: 20 MHz)	40 mV
Product feature / output voltage adjustable	No
Output voltage setting	-
Status display	Green LED for 24 V OK
On/off behavior	No overshoot of Vout (soft start)
Startup delay, max.	0.6 s
Voltage rise, typ.	20 ms
Rated current value Iout rated	4 A
Current range	0 ... 4 A
• Note	2.5 A up to +60 °C
delivered active power / typ.	96 W
constant overload current / at short-circuit during run-up / typical	4.4 A
constant overload current / at short-circuit during operation / typical	4.4 A
Parallel switching for enhanced performance	Yes
Numbers of parallel switchable units for enhanced performance	10
Efficiency	
Efficiency at Vout rated, Iout rated, approx.	85 %
Power loss at Vout rated, Iout rated, approx.	17 W
Closed-loop control	
Dynamic mains compensation (Vin rated ±15 %), max.	0.3 %
Dynamic load smoothing (Iout: 50/100/50 %), Uout ± typ.	0.5 %
Load step setting time 50 to 100%, typ.	1 ms
Load step setting time 100 to 50%, typ.	1 ms
Setting time / maximum	2 ms
Protection and monitoring	
Output overvoltage protection	Yes, according to EN 60950
Current limitation, typ.	4.4 A
Characteristic feature of the output / short-circuit protected	Yes

Short-circuit protection	Constant current characteristic
Enduring short circuit current / Effective level / maximum	5 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 ... 50 °C
• Note	with natural convection
Ambient temperature / on transport	-25 ... +85 °C
Ambient temperature / in storage	-25 ... +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 2 x 0.5 ... 1.5 mm ² finely stranded, 2 x 0.5 ... 2.5 mm ² single-core
Connections / Output	L+, M: 1 screw terminal each for 2 x 0.5 ... 2.5 mm ²
Connections / Auxiliary	-
Width / of the housing	80 mm
Height / of the housing	135 mm
Depth / of the housing	120 mm
Installation width	80 mm
Mounting height	335 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 fixing / cap rail mounting	Yes
Type of mounting / S7-300 rail mounting	No
Installation	Snaps onto DIN rail EN 60715 35x15, wall mounting
Other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)



letzte Änderung:

Oct 19, 2012