



SITOP POWER 2,
DC/DC STABILIZED POWER SUPPLY INPUT: 48/60/110 V
DC OUTPUT: 24 V DC/2 A

Technical specifications

Product	SITOP power
Power supply, type	24 V/2 A

Input

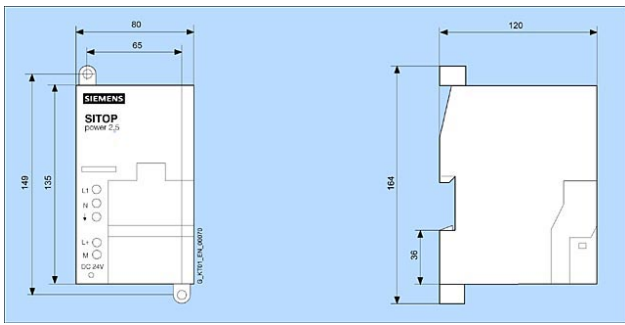
Input	DC voltage
Supply voltage / at DC	48 ... 110 V
Input voltage / at DC	38 ... 121 V
Wide-range input	Yes
Oversvoltage resistance	-
Mains buffering at lout rated, min.	5 ms
Mains buffering	at Vin = 48 V
Input current / at nominal level of the input voltage 48 V	1.2 A
Input current / at nominal level of the input voltage 110 V	0.5 A
Switch-on current limiting (+25 °C), max.	33 A
Built-in incoming fuse	T 2.5 A (not accessible)
Protection in the mains power input (IEC 898)	Recommended miniature circuit breaker: 10 to 25 A, characteristic B, or 6 to 25 A, characteristic C, suitable for DC

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.	0.4 %
Residual ripple peak-peak, max.	100 mV
Spikes peak-peak, max. (bandwidth: 20 MHz)	300 mV
Adjustment range	23.5 ... 26.5 V
Product feature / output voltage adjustable	Yes
Output voltage setting	via potentiometer
Status display	Green LED for 24 V OK
On/off behavior	Overshoot of Vout on startup max. 25 V
Startup delay, max.	3 s
Voltage rise, typ.	30 ms
Rated current value Iout rated	2 A
Current range	0 ... 2 A
delivered active power / typ.	48 W
Parallel switching for enhanced performance	Yes
Numbers of parallel switchable units for enhanced performance	2
Efficiency	
Efficiency at Vout rated, Iout rated, approx.	84 %
Power loss at Vout rated, Iout rated, approx.	9 W
Closed-loop control	
Dynamic mains compensation (Vin rated ± 15 %), max.	0.3 %
Dynamic load smoothing (Iout: 50/100/50 %), Uout \pm typ.	0.8 %
Load step setting time 50 to 100%, typ.	2.5 ms
Load step setting time 100 to 50%, typ.	2.5 ms
Protection and monitoring	
Output overvoltage protection	Yes, suppressor diode at output
Current limitation	2.1 ... 3 A
Characteristic feature of the output / short-circuit protected	Yes
Short-circuit protection	Electronic shutdown, automatic restart
Enduring short circuit current / Effective level / maximum	2 A
Overload/short-circuit indicator	-
Safety	
Primary/secondary isolation	Yes
Potential separation	Safety extra low output voltage Vout according to EN 60950-1
Protection class	Class I
stray current / maximum	3.5 mA
stray current / typical	0.7 mA
CE mark	Yes
UL/CSA approval	Yes

UL/cUL (CSA) approval	cULus-Listed (UL 508, CSA C22.2 No. 142), File E179336
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	not applicable
Noise immunity	EN 61000-6-2
Operating data	
Ambient temperature / in operation	0 ... 70 °C
• Note	with natural convection
Ambient temperature / on transport	-40 ... +70 °C
Ambient temperature / in storage	-40 ... +70 °C
Humidity class according to EN 60721	Climate class 3K3, no condensation
Mechanics	
Connection technology	screw-type terminals
Connections / Supply input	L+, M1, PE: 1 screw terminal each for 2 x 0.5 ... 2.5/1.5 mm ² single-core/finely stranded
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	235 mm
Weight, approx.	0.5 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	Snaps onto DIN rail EN 60715 35x15
Other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)



letzte Änderung:

Oct 19, 2012