



SITOP 2.5 A,
DC/DC-CONVERTER STABILIZED POWER SUPPLY
INPUT: 24 V DC OUTPUT: 12 V DC/2.5 A

Technical specifications

Product	SITOP DC/DC
Power supply, type	12 V/2.5 A

Input

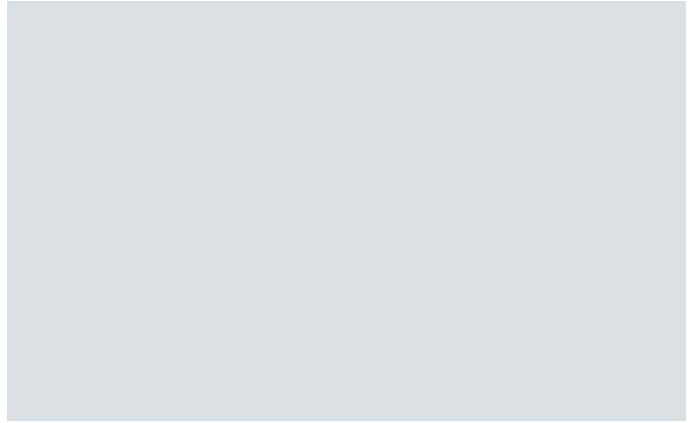
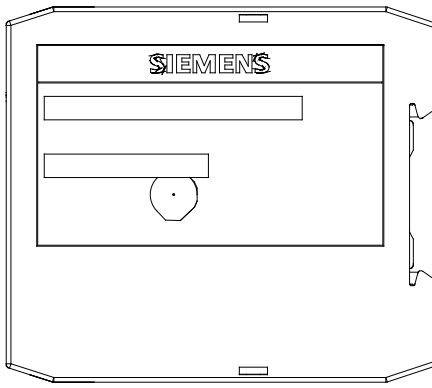
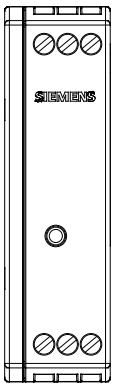
Input	DC voltage PELV/SELV
Supply voltage / at DC	24 ... 24 V
Input voltage / at DC	18.5 ... 30.2 V
Wide-range input	No
Input current / at nominal level of the input voltage 24 V	2.5 A
Switch-on current limiting (+25 °C), max.	20 A
Duration of current limiting / at 25 °C / typical	5 ms
Built-in incoming fuse	not accessible
Protection in the mains power input (IEC 898)	Recommended miniature circuit breaker: 10 A, characteristic B

Output

Output	Controlled, isolated DC voltage
Rated voltage Vout DC	12 V
Total tolerance, static ±	3 %
Static mains compensation, approx.	0.1 %
Static load balancing, approx.	0.4 %
Residual ripple peak-peak, max.	100 mV

Residual ripple peak-peak, typ.	50 mV
Spikes peak-peak, max. (bandwidth: 20 MHz)	200 mV
Spikes peak-peak, typ. (bandwidth: 20 MHz)	50 mV
Adjustment range	12 ... 14 V
Product feature / output voltage adjustable	Yes
Output voltage setting	via potentiometer
Status display	Green LED for 12 V OK
Startup delay, max.	0.5 s
Voltage rise, typ.	300 ms
Rated current value I _{out} rated	2.5 A
Current range	0 ... 2.5 A
short-term overload current / at short-circuit during run-up / typical	3.3 A
constant overload current / at short-circuit during run-up / typical	3.3 A
short-term overload current / at short-circuit during operation / typical	3.3 A
constant overload current / at short-circuit during operation / typical	3.3 A
Parallel switching for enhanced performance	Yes
Numbers of parallel switchable units for enhanced performance	2
Efficiency	
Efficiency at V _{out} rated, I _{out} rated, approx.	83 %
Power loss at V _{out} rated, I _{out} rated, approx.	6.1 W
Closed-loop control	
Dynamic mains compensation (V _{in} rated ±15 %), max.	0.5 %
Dynamic load smoothing (I _{out} : 50/100/50 %), U _{out} ± typ.	3 %
Load step setting time 50 to 100%, typ.	5 ms
Load step setting time 100 to 50%, typ.	2 ms
Setting time / maximum	5 ms
Protection and monitoring	
Output overvoltage protection	< 24 V
Current limitation	3 ... 3.6 A
Current limitation, typ.	3.3 A
Characteristic feature of the output / short-circuit protected	Yes
Short-circuit protection	Constant current characteristic approx. 3.2 A
Enduring short circuit current / Effective level / typical	3.2 A
Overload/short-circuit indicator	LED red for "overload"
Safety	
Primary/secondary isolation	Yes
Potential separation	Safety extra low output voltage V _{out} according to EN 60950-1
Protection class	Class II
CE mark	Yes

UL/CSA approval	Yes
UL/cUL (CSA) approval	cCSAus (UL 508, CSA22.2-107, UL60950-1, CSA22.2-60950-1)
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	-
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	+, -: 1 screw terminal each for 0.5 ... 2.5 mm ²
Connections / Output	+, -: 2 screw terminals each for 0.5 ... 2.5 mm ²
Connections / Auxiliary	-
Width / of the housing	32.5 mm
Height / of the housing	125 mm
Depth / of the housing	125 mm
Installation width	32.5 mm
Mounting height	225 mm
Weight, approx.	0.32 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 35x7.5/15
Other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)



letzte Änderung:

Sep 10, 2012