

Technical specifications

Order No.	6EP1 621-2BA00
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
Input voltage at DC	18.5 ... 30.2 V
Input current at nominal level of the input voltage 24 V nominal value	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 \pm	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 %), $U_{out} \pm$ typ.	3 %
Load step setting time 50 to 100%, typ.	5 ms
Load step setting time 100 to 50%,	2 ms

typ.	
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

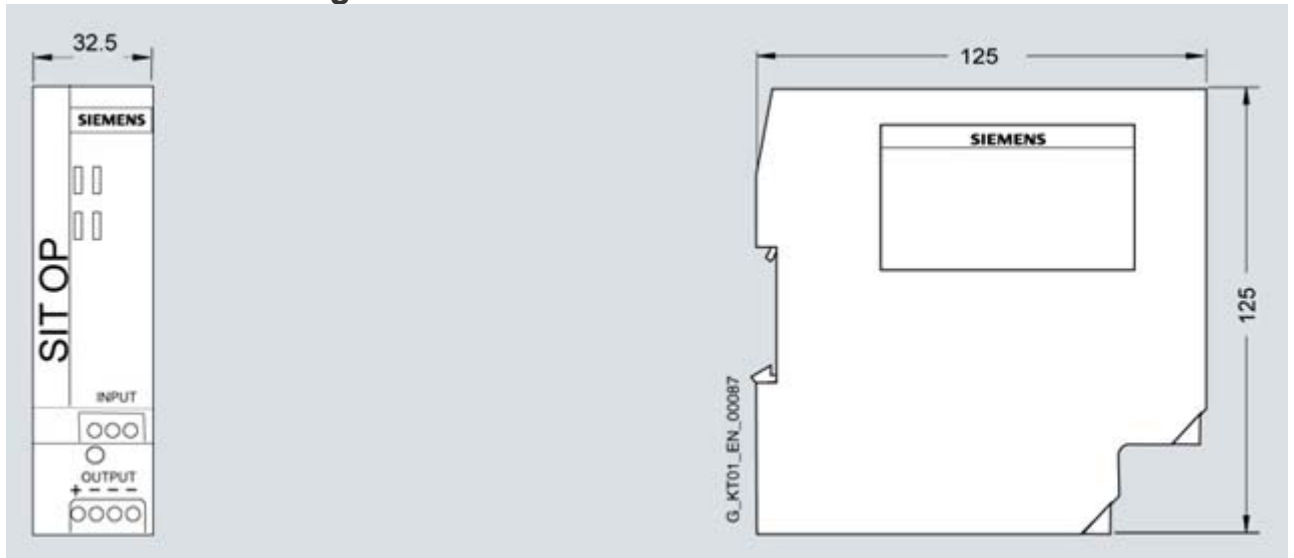
UL/cUL (CSA) approval	cCSAus (UL 508, CSA22.2-107, UL60950-1, CSA22.2-60950-1)
Explosion protection	-
FM approval	No
FM approval	-
CB approval	No
Marine approval	-
Degree of protection (EN 60529)	IP20
EMC	
Emitted interference	EN 55022 Class B
Supply harmonics limitation	-
Noise immunity	EN 61000-6-2
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
▪ Output	+, -: 2 screw terminals each for 0.5 ... 2.5 mm ²
▪ 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
Installation 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



Dimensional drawings



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