

SITOP PSA100E STABILIZED POWER SUPPLY 300 W
INPUT: 230 V AC OUTPUT: 24 V DC/12 A

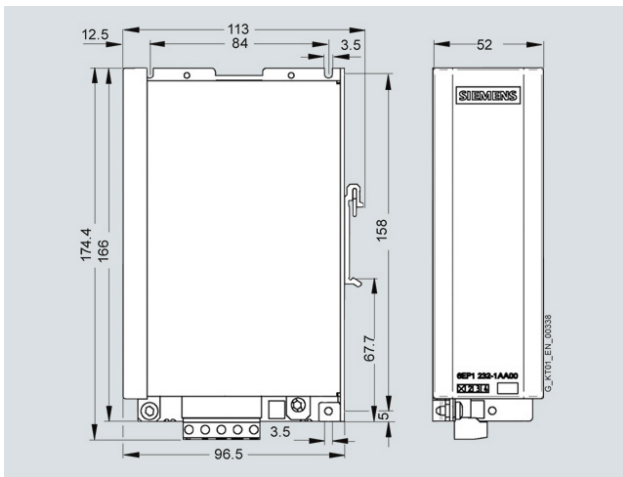


Technical specifications

Product	SITOP PSA100E
Power supply, type	24 V/12 A
Input	
Input	1-phase AC
Supply voltage / 1 / at AC / nominal value	230 V
Voltage range	187 ... 264 V
Wide-range input	No
Overvoltage resistance	-
Mains buffering at I _{out} rated, min.	10 ms
Rated line frequency	50 / 60 Hz
Rated line range	47 ... 63 Hz
Input current / at nominal level of the input voltage 230 V	2.5 A
Switch-on current limiting (+25 °C), max.	50 A
I ² t, max.	3.3 A ² ·s
Built-in incoming fuse	internal
Protection in the mains power input (IEC 898)	Recommended miniature circuit breaker: from 10 A, characteristic C
Output	
Output	Controlled, isolated DC voltage
Rated voltage V _{out} DC	24 V

Total tolerance, static $\pm$	3 %
Static mains compensation, approx.	0.1 %
Static load balancing, approx.	0.5 %
Residual ripple peak-peak, max.	150 mV
Spikes peak-peak, max. (bandwidth: 20 MHz)	250 mV
Adjustment range	23 ... 26 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 < 5 %
Startup delay, max.	0.3 s
Voltage increase time / of the output voltage / maximum	500 ms
Rated current value Iout rated	12 A
Current range	0 ... 12 A
• Note	12 A up to +45 °C, 6 A up to +70 °C
delivered active power / typ.	288 W
Parallel switching for enhanced performance	Yes
Numbers of parallel switchable units for enhanced performance	2
Efficiency	
Efficiency at Vout rated, Iout rated, approx.	88 %
Power loss at Vout rated, Iout rated, approx.	39 W
Closed-loop control	
Dynamic mains compensation (Vin rated ± 15 %), max.	0.3 %
Dynamic load smoothing (Iout: 50/100/50 %), Uout $\pm$ typ.	3.5 %
Load step setting time 50 to 100%, typ.	0.1 ms
Load step setting time 100 to 50%, typ.	0.1 ms
Protection and monitoring	
Output overvoltage protection	< 35 V
Current limitation, typ.	13.2 A
Characteristic feature of the output / short-circuit protected	Yes
Short-circuit protection	Electronic shutdown, automatic restart
Enduring short circuit current / Effective level / maximum	7.5 A
Overload/short-circuit indicator	-
Safety	
Primary/secondary isolation	Yes
Potential separation	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
Protection class	Class I
stray current / maximum	3.5 mA

stray current / typical	0.8 mA
CE mark	Yes
UL/CSA approval	Yes
UL/cUL (CSA) approval	cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
Explosion protection	-
FM approval	-
CB approval	Yes
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	-10 ... +70 °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: Removable screw terminal, each for 1 x 0.5 ... 2.5 mm ²
Connections / Output	+, -: Removable screw terminal each for 1 x 0.5 ... 2.5 mm ²
Connections / Auxiliary	-
Width / of the housing	52 mm
Height / of the housing	170 mm
Depth / of the housing	110 mm
Installation width	52 mm
Mounting height	230 mm
Weight, approx.	0.9 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 35x7.5/15, wall mounting
Other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)



letzte Änderung:

Oct 19, 2012