

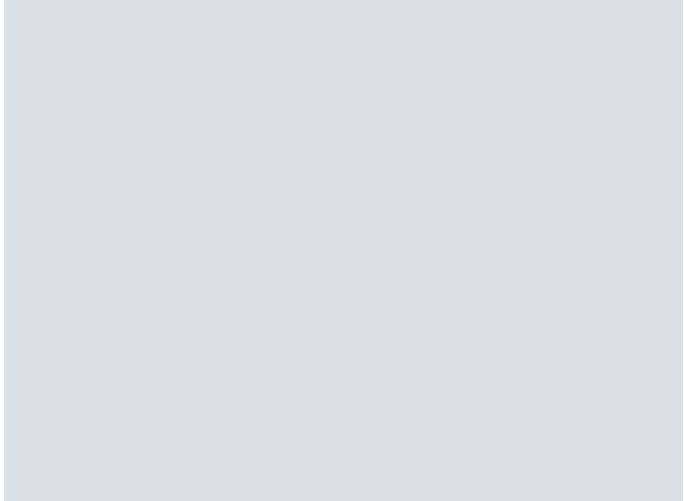
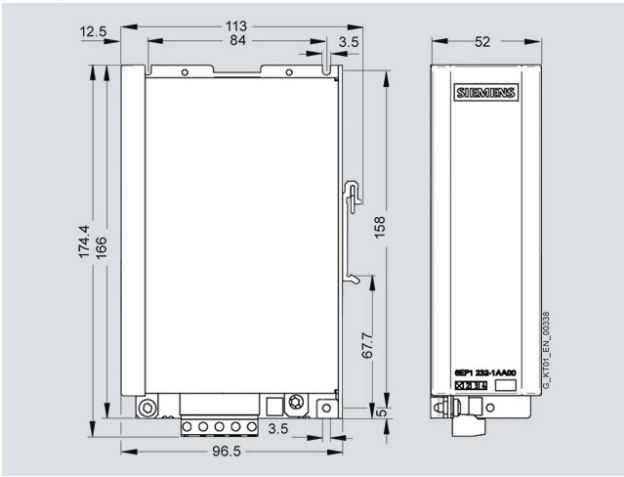
SITOP PSA100E STABILIZED POWER SUPPLY 60 W  
 INPUT: 230 V AC OUTPUT: 24 V DC/2.5 A



Technical specifications	
Product	SITOP PSA100E
Power supply, type	24 V/2.5 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 lout 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	0.65 A
Switch-on current limiting (+25 °C), max.	30 A
I <sup>2</sup> t, max.	0.8 A <sup>2</sup> ·s
Built-in incoming fuse	internal
Protection in the mains power input (IEC 898)	Recommended miniature circuit breaker: from 6 A, characteristic C
Output	
Output	Controlled, isolated DC voltage
Rated voltage V <sub>out</sub> DC	24 V

Total tolerance, static $\pm$	3 %
Static mains compensation, approx.	0.2 %
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 $V_{out} < 1\%$
Startup delay, max.	1.5 s
Voltage increase time / of the output voltage / maximum	100 ms
Rated current value $I_{out\ rated}$	2.5 A
Current range	0 ... 2.5 A
• Note	2.5 A up to +45 °C, 1.25 A up to +70 °C
delivered active power / typ.	60 W
Parallel switching for enhanced performance	Yes
Numbers of parallel switchable units for enhanced performance	2
<b>Efficiency</b>	
Efficiency at $V_{out\ rated}$ , $I_{out\ rated}$ , approx.	84 %
Power loss at $V_{out\ rated}$ , $I_{out\ rated}$ , approx.	11 W
<b>Closed-loop control</b>	
Dynamic mains compensation ( $V_{in\ rated} \pm 15\%$ ), max.	0.3 %
Dynamic load smoothing ( $I_{out}: 50/100/50\%$ ), $U_{out} \pm$ typ.	2 %
Load step setting time 50 to 100%, typ.	0.2 ms
Load step setting time 100 to 50%, typ.	0.2 ms
<b>Protection and monitoring</b>	
Output overvoltage protection	< 35 V
Current limitation, typ.	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	-
<b>Safety</b>	
Primary/secondary isolation	Yes
Potential separation	Safety extra-low output voltage $U_{out}$ acc. to EN 60950-1 and EN 50178
Protection class	Class I
stray current / maximum	3.5 mA

stray current / typical	0.4 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
<b>EMC</b>	
Emitted interference	EN 55022 Class B
Supply harmonics limitation	not applicable
Noise immunity	EN 61000-6-2
<b>Operating data</b>	
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
<b>Mechanics</b>	
Connection technology	screw-type terminals
Connections / Supply input	L, N, PE: Removable screw terminal, each for 1 x 0.5 ... 2.5 mm <sup>2</sup>
Connections / Output	+, -: Removable screw terminal each for 1 x 0.5 ... 2.5 mm <sup>2</sup>
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.	0.8 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