

ALL PSU DATA SHEET.

400 Watt Encapsulated Step Down Converter, SV30A

- Output Power 400W
- High Reliability, MTBF >500K Hrs
- Screw Terminals
- Efficiency Up To 95 %
- Short Circuit Protection
- For Cold Wall Or Chassis Mounting
- For Fixed Or Mobile Applications
- Sealed & Rugged IP68 Construction



STANDARD MODELS (Non standard input or output options may be available).

DC Input Order Code	1	2	3	
Input Range	9-18V	18-72V	77-130V	
Output Power	Max. 400W			
Output Voltage Order Code	1	2	3	4
Output voltage	5V	12V	15V	24V
Maximum Output Current	30A	25A	25A	17A
Accuracy	Typ.1%			
Other Output Voltages	On request			

Note : As A Step Down Converter,
The DC input voltage must at least be 3Volts above the output voltage required.

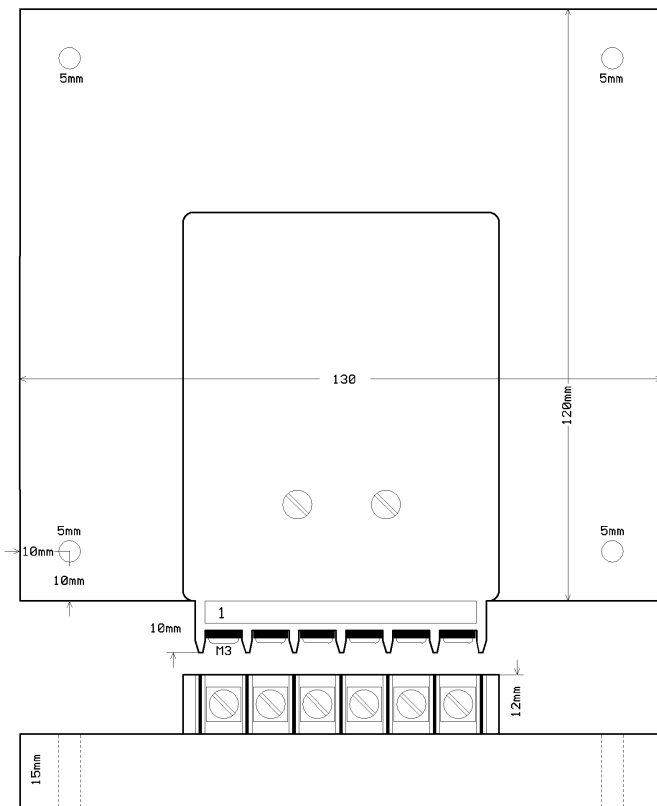
Specification

(after warm-up time at 25° C)

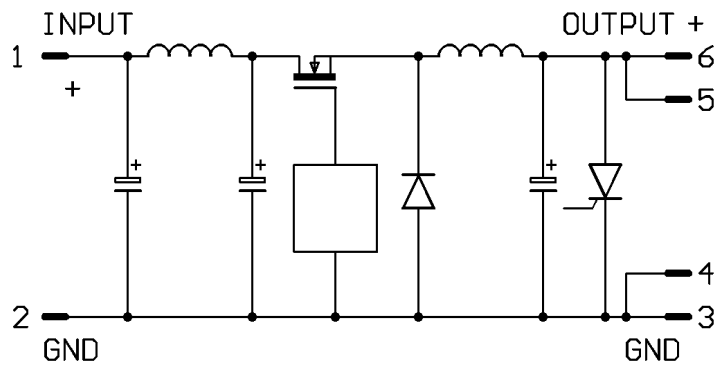
Regulation	
- Load Variation 0 – 100 % static	typ. $\leq \pm 0,3\%$ (max. 0,5%)
- dynamic	typ. $\leq \pm 1,0\%$ (max. 2,0%)
- Input Voltage Variation $\pm 25\%$	typ. $\leq \pm 0,2\%$ (max. 0,5%)
- Recovery Time to $\pm 1\%$	typ. 0,50ms (max. 1ms)
- Ripple & Noise	$< 1\% V_{Nenn}$
- Switching Component	typ. 100 mV pp
- Efficiency @ Full Load	
24V output	$\geq 94\%$
5V output	$\geq 87\%$
- Input Current With No Load	ca. 25mA
- Storage Temperature Range	-40°C...+125°C
- Operating Temperature Range	-25°C...+125°C
- Op. Temp. Range @ Full Load	-25°C...+85°C
- Derating Above 85°	2,5 %/°C
- Temperature Coefficient	$< 0,05\%/^{\circ}\text{C}$
- Humidity	100 % RH
- MTBF(constant failure period)	$> 500\text{K Hrs}$

- Switching Frequency	ca./approx. 120 kHz.
- Short Circuit Protection By	Current limit
- Calibrated At The Factory @	ca. 110...120%I _{nom}
- Overvoltage Protection	Standard
- For 5V types	ca. 6,5V
- For 12V types	ca. 16 V
- For 15V types	ca. 19 V
- For 24V types	ca. 28 V

Mechanical Drawing



Block Diagram



Part Number System

SV30A - X Y

Series SV30A

X = Input Voltage Code.

Y = Output Voltage Code.

Overall Dimensions in mm 130 x 120 x 27 mm
15 mm Thick Base Plate Is Aluminium.

*Other Units In this Series Are Available From 40 to 120 Watts With Isolated Outputs,
And Up To 600 Watts Non Isolated.*

*For More Information On This Or Other Products Pleased Contact The ALL PSU Sales Office.
Or Visit Us At www.allpsu.co.uk*