

ALL PSU DATA SHEET.

150 Watt Encapsulated DC/DC-converter SI150W1 Series Single Output.

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- Output Power 150W max.
 - Input / Output Galvanically Isolated
 - Filtering At Input
 - Overload & Overtemperature Protected
 - Copper Case
 - For High Ambient Temperatures (125°C) and long life
 - Wide Input Range
 - Overvoltage Protection
 - Output Senselines On PCB Mount Version.
 - [According To EN 50155 For Rail Applications](#)
- PCB Or Chassis Mounting Options
PCB Pin Or Faston Terminals
Suitable For Railway Applications

Standard Models, (Other Input Or Output Versions May Be Available).

Input Voltage Range	According To EN50155 (Min +/-25% Range)				
Input Voltage Order Code	2	4	5	7	
Nominal Input Voltage DC	12V	24V	48V	110V	
Input To Output	Isolated				
Output Power Rating	Max. 150 W				
Output Voltage Order Code	1	2	3	4	5
Output Voltage	5V	12V	15V	24V	48V
Output Current	30A	12.5A	10A	6A	3.1A
Accuracy	Typ.1%				

At 12V input voltage max. 75% output power

Specification

(after warm-up-time at 25°C)

- Output Voltage Accuracy @ 50% Load	typ. 1 %
- Regulation	
- Load Variation 10-90% static	typ. 1.0 % (max 2.0 %)
- Input Voltage Variation	typ. 0.5 % (max 1.0 %)
- Recovery Time	100 µs (max. 500µs)
- Efficiency @ Full Load & Nominal Input 24 / 24	typ. 86 %
- Reflected Output Ripple	1% pp.max.
- Input Ripple	1% pp max.
- Storage Temperature Range	-40°C...+125°C
- Operating Temperature	-40°C...+125°C
- Derating Above 85°C	2.5 % / °C
- Temperature Coefficient	0.02 %°C
- Humidity	100 % RH
- Isolation Input / Output	1000 VDC / 1 min. (See note for higher Isolation options).
- Isolation Capacity Input / Output	typ.100 pF *
- Isolation Resistor	1G Ohm
* With Anti-Interference Capacitor	ca. 1nF
- Thermal Limit	ca-/approx. 130 °

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Cont ...150 Watt Encapsulated DC/DC Converter, SI150W1 Series

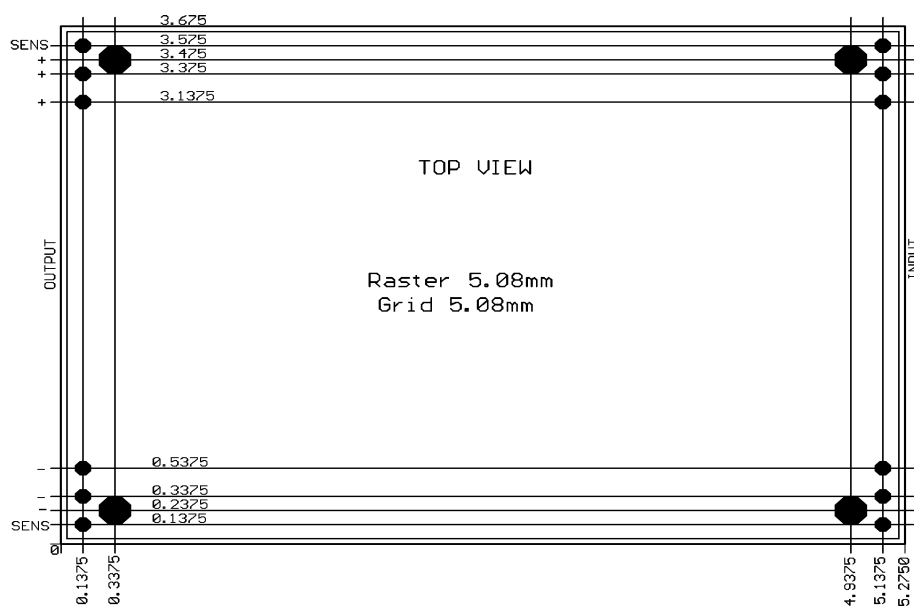
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Specification

- Overvoltage Protection	Standard
- 5V Output	ca./approx. 7V
- 12V Output	ca./approx. 16V
- 15V Output	ca./approx. 19V
- 24V Output	ca./approx. 29V
- Release Time	∴ 2μs
- Ingress Protection System	IP68

Mechanical Drawing / Pin-Out (inch)

PCB Mount Version, (Please Enquire For Chassis Mount Version).



Part Number Example

SI150W 1 - 4 2

Input 24 Volts

Output 12 Volts

Dimension

134 x 94 x 18mm

Weight Approx. 600 g.

Pin (Total 12) diameter approx.: 1.3mm

4 x M3 Fixings, Available Isolated or

Electrically connected to Input & Output +/-

Option of Chassis Style Mounting Plate Fitted To Top Of Case With Faston Terminals For Input & Output.
Please Contact Sales Office For Mechanical Drawing.

Notes

Other Input / Output Voltages Or Special Modules On Request. Dual Output Versions Also Available.

Higher Output Currents On Request. 100 & 200 Watt Versions Also Available.

Higher Break Down Voltage (Input / Output) On Request..

The Units Are Available With Earth-Pin On Request.

Subject To Technical Changes, E&OE.

Further DC-DC Converters From 0.5 To 600 Watts Can Be Seen At www.allpsu.co.uk

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