

ALL PSU DATA SHEET.

100 Watt Encapsulated DC/DC-converter SI100W1 Series

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- Output Power 100W 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 Mounting Version.
 - [According To EN 50155 For Railway Applications.](#)
- PCB Or Chassis Mounting Options
PCB Pin Or Faston Terminals

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

Input Voltage Range	According To EN50155 (Min +/-25%)				
Input Voltage Order Code	2	4	5	7	
Nominal Input Voltage DC	12V	24V	48V	110V	
Input To Output	Isolated				
Output Power Rating	Max. 100 W				
Output Voltage Order Code	1	2	3	4	5
Output Voltage	5V	12V	15V	24V	48V
Output Current	20A	8.3A	6.6A	4.2A	2.1A
Accuracy	Typ.1%				

At 12V input voltage max. 75W 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.
- 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 ...100 Watt Encapsulated DC/DC Converter, SI100W1 Series

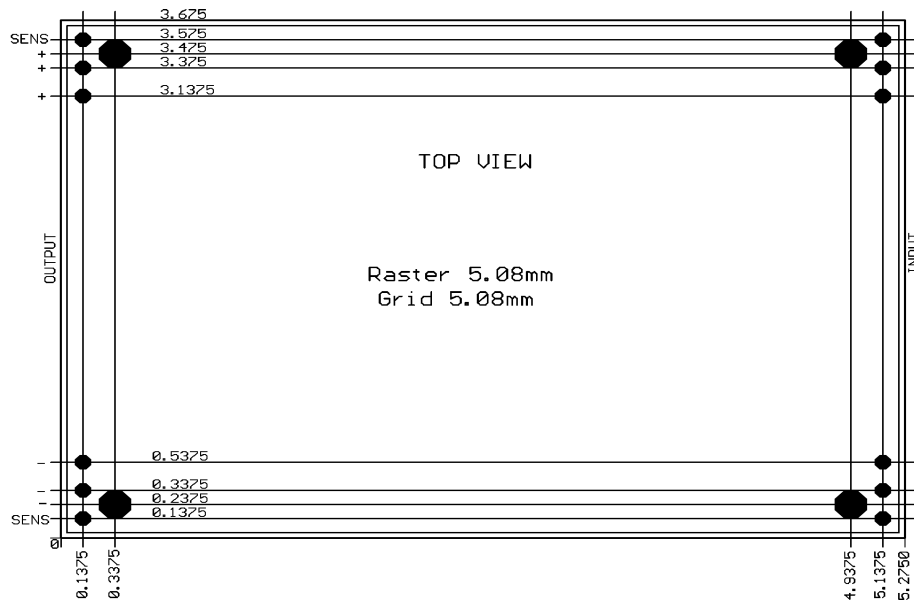
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Specification

- 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

SI100W 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. 150 & 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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