

## 12 Watt DC-DC Converters

### KEY FEATURES

- Wide Input Range: 4:1
- Efficiencies 78-82% Typical
- L-C Input Filter
- Overload/Short Circuit Protection,
- Overvoltage Protection (Output)
- Low Profile: 0.375" High (10mm)
- No Derating to 71 °C
- 2000V Isolation
- Designed to meet UL60950



### APPLICATIONS

- Telecommunications Equipment
- Industrial Control Systems
- Digital Circuits
- Analog Systems
- Private Branch Exchange (PBX, PABX)
- Distributed Power Systems

The 12AW series of DC/DC converters operate from a nominal 24 or 48 VDC input source. This series is available in 5 volt & 3.3 volt single output and a dual + & - 12 volt output models. Maximum output power is 12 watts. These board mountable, low profile DC/DC converters are ideal for the requirements of the industrial control and telecommunications industries.

The size and pin out conform to internationally recognised packaging that is an industry standard. Operating from a nominal 24 or 48 VDC input source, this PCB mountable, low profile miniature converter provides single regulated, isolated outputs of 5 & 3.3 VDC or a dual regulated, isolated output of  $\pm 12$  VDC. It is designed to meet a variety of safety and emissions requirements including CE (LVD), EN 55022 "Class A", and UL60950.

### Selection Guide

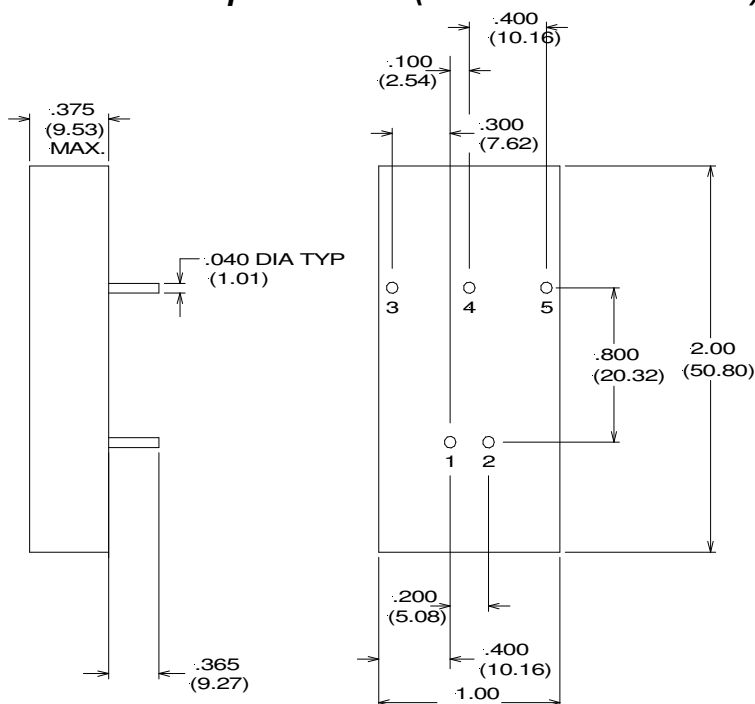
Device Type	Input Voltage Range VDC	Input Current A (Max)	Output Voltage VDC	Output Current A (Max)	Package/ Pinout
12AW48R3.3	18 – 72	.319A	+ or - 3.3	3.64	A
12AW48R5	18 – 72	.304A	+ or - 5	2.40	A
12AW48R12-12	18 – 72	.325A	+ and - 12	0.50	A



(Specifications at Nominal Input and 25 C, nominal input voltage and rated output current unless otherwise noted.)

### Pin Connections:

***Mechanical Specification (dimensions in inches)***



**Notes (all devices and packages):**

1. All dimensions in parentheses are metric
2. Tolerances unless otherwise specified:  
    .xx ± .03 (.76)  
    .xxx ± .015 (.38)

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