

80 Watt DC-DC Converters

Integrated DC 9-36V Input (Built-in).

Terminal Block "+" and "-".80 Watt DC-DC Converters, 12V, 6.67amps

Model: DC80-12

This is isolated 9-36VDC input with 12VDC output

It is normally applied in Marine or Vehicle application which has electricity motor inside to avoid noise caused by power system.



FEATURES

- 4:1 Input Range
- 80 W Isolated Output Power
- High-Density
- Open-Frame or Enclosure type Option
- Standard "Half-Brick" Package
- Input Under and Overvoltage Shutdown
- Remote on/off Control
- Safety Approvals Pending
- RoHS Compliant

INPUT SPECIFICATIONS

Input Voltage Range	24V	9-36V
Input Voltage peak/surge	24V	50V/100ms max.
Input Filter	Pi Network	
Input Turn-On Voltage	24V	10 VDC typ.
Input Undervoltage Shutdown	24V	8 VDC typ.

OUTPUT SPECIFICATIONS

Voltage Accuracy ¹	±1.5%max.
Transient Response ²	
Single, 25% step Load Change.....	<500u sec.
External Trim Adj. Range.....	±10%
Short Circuit Protection.....	Continuous
Line Regulation ³	±0.5% max.
Load Regulation ⁴	±1.0% max.
Ripple and Noise, 20MHz BW ⁵ ,	
3.3V, 5V	100mV p-p max.
12V, 15V,.....	200mV p-p max.
Overvoltage Protection ⁶ , 3.3V	4.3V typ.
5.0V	6.2V typ.
12V	15V typ.
15V	18V typ.

GENERAL SPECIFICATIONS

Efficiency	See Table
Isolation Voltage	1500 VDC min.
Switch Frequency	330KHz
Isolation Resistance ⁷	108 Ohms min.
Over temperature shutdown point ⁸ , ⁹	120°C typ.
Operation Temperature ⁹	-40°C to +120°C
Storage Temperature Range	-55°C to +125°C
EMI/RFI Conducted ¹⁰	EN55022 Level A/B
Dimensions	2.40*2.28*0.45 inches (60.96*57.91*11.50 mm)
Weight	80g

PIN ASSIGNMENT

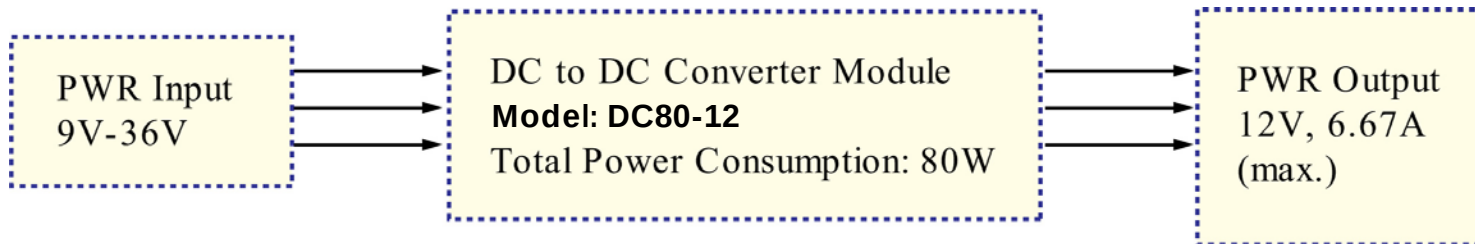
Pin	Function
1	12VDC
2	GND
3	GND
4	GND
5	12VDC
6	12VDC



i-Tech Company LLC

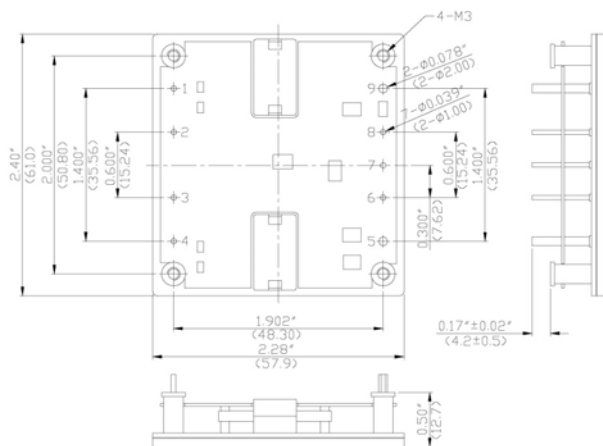
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GENERAL



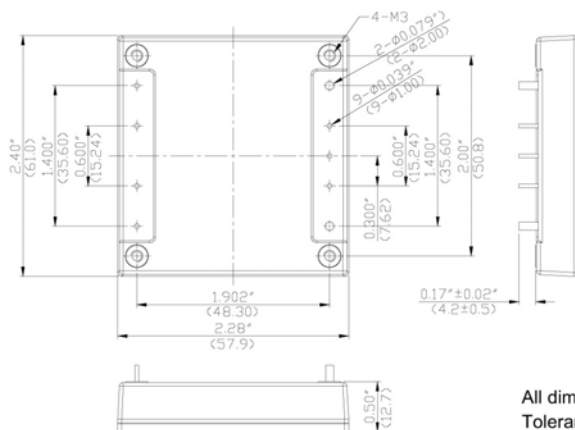
MECHANICAL DRAWING

Open Frame Type



BOTTOM VIEW

Enclosure Type



With Heatsink: TBD

All dimensions in inches (mm).
Tolerance .xx= ±0.04"
.xxx=±0.010"