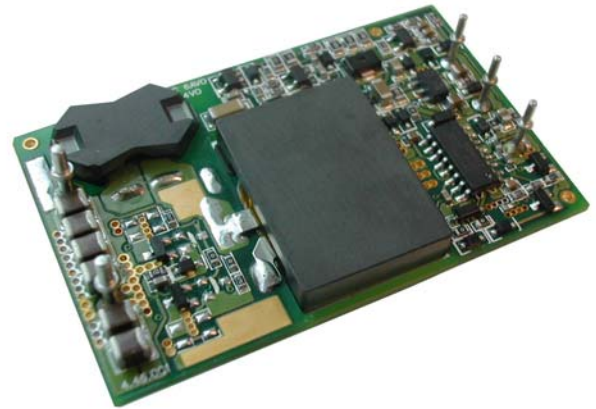


Preliminary Product Specification

The Bus Converter is a high-efficiency, isolated dc/dc converter in an industry standard "quarter-brick" size. It provides a nominal 12V rail from 48V input with limited regulation.

The converter has a maximum power rating of 300watts. The high step-down ratio (4:1 from input to output) and the input voltage range (from 42V to 53V) make it ideal to be used with point-of-load converters to achieve high performance.



FEATURES

- ◆ Ultra High efficiency: 96.3% Max
- ◆ Industry standard quarter brick pinout
- ◆ 36.8mm×58.42mm×12.7mm (1.45 in. × 2.3 in. × 0.5 in.)
- ◆ Through hole package
- ◆ Cost efficient open frame
- ◆ Meet basic insulation requirement

PROTECTION

- ◆ Output overcurrent protection
- ◆ Over-temperature protection
- ◆ Input undervoltage lockout
- ◆ Input overvoltage protection

APPLICATIONS

- ◆ Distributed power architectures
- ◆ Telecom/datacom equipment
- ◆ Networking applications
- ◆ Computer equipment

SPECIFICATIONS

GENERAL SPECIFICATIONS			OUTPUT SPECIFICATIONS		
Input Voltage		42~53V	Output Power	12V@25A	300W
Switching Frequency	Typical	150KHz	Efficiency	Maximum	96.3%
Input UVP	Minimum	38	Load Regulation	0%~100%	500mV
Input UVP	Maximum	55	Line Regulation	Typical	3.6V
Isolation Voltage	In/Out	1500V	Ripple & Noise	20MHz BW Typical	150mVp-p
Size	36.8×58.42×12.7(mm)		Current Limit	Typical	28A

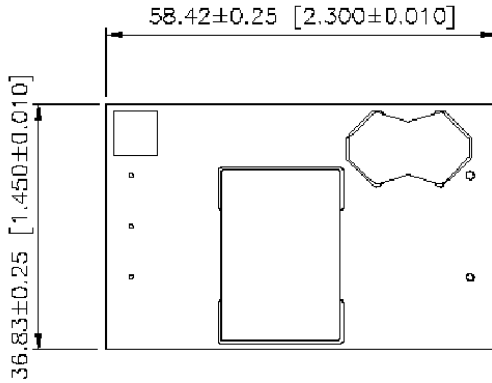
APC-Q301 Full Brick Single Output DC-DC Converter - 48Vi, 12Vo 300W

Mechanical Outline

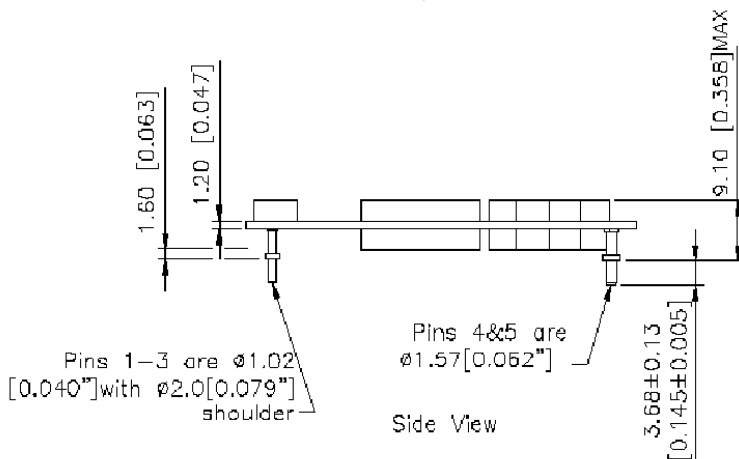
Dimensions are in millimetres and (inches).

Tolerances: x.x mm ± 0.5mm (x.xx in. ± 0.02 in.)

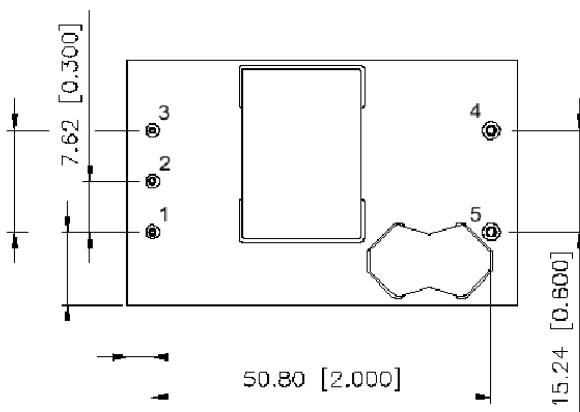
x.xx mm ± 0.25mm (x.xxx in. ± 0.010 in.)



Top View



Side View



Bottom View

Pin Assignment	
Pin #	Function
1	Vin(+)
2	ON/OFF
3	Vin(-)
4	Vout(-)
5	Vout(+)

- Pins 1-3 and 5-7 are 1.02" dia [0.04] with 2.0" [0.079] shoulder
- Pins 4 and 8 are 1.57" dia [0.062] with shoulder
- Converter Weight: 26g approx.

Exceeding absolute maximum ratings may cause permanent damage and may reduce reliability. Information and specifications contained in this data sheet are believed to be correct at the time of publication. However, APC accept no responsibility for consequences arising from printing errors or inaccuracies. Specifications are subject to change without notice.