Convection cooled 60 W DC-DC converter achieves 92% efficiency

XP Power announced the JCK60 series of highly efficient metal cased 60 Watt DC-DC converters aimed at a broad range of telecommunications, networking and industrial applications. Measuring only 2 x 2 x 0.4 inches (50.8 x 50.8 x 10.16 mm), the compact convection cooled JCK60 has a high power density of 37.5 Watts per cubic inch and has no need for any forced air cooling, additional heat sinking or baseplate cooling.

The single output JCK60 series accommodates a 2:1 input voltage range and includes undervoltage lockout. Models are available with either a 24 VDC (18 – 36 VDC) or 48 VDC (36 – 75 VDC) nominal input, and outputs cater for the popular voltages of 3.3, 5, 12 or 15 VDC. An output trim function allows the adjustment of output voltage of +/- 10% of nominal and remote sense compensates for drops in voltage at the load.

The converter is capable of operating in most environments and across a wide range of temperatures from – 40 to + 85 degrees C. Full output power is available up to + 40 degrees C without derating.

A remote on/off input provides an external control of the output and can be used to sequence start-up procedures. Overvoltage, overload and continuous short circuit protection features are standard across the range. All models have an input to output and input/output to case isolation of 1,600 VDC.

The units meet EN55022 level A conducted and radiated emissions with no external components necessary.

The JCK60 is priced at $77.22 for a 500 pc order and is available from Newark, or direct from XP Power.

XP Power

408-732-7777; www.xppower.com [1]

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[1] http://www.xppower.com