DC-DC Converters Provide High Output Current

Murata Power Solutions has extended its HPQ range of high power quarter-brick isolated DC-DC converters with the introduction of the HPQ-12/25-D48, a 300 W model with 12 V output. The new model features a wide 2:1 input range of 36 to 75 V and output of 12 V, plus high output current of up to 25 A in an industry standard quarter-brick package (2.3 x 1.45 x 0.44 in.). The HPQ-12/25-D48 also boasts high efficiency of up to 94.5%. The HPQ-12/25-D48 is ideal for a wide range of markets and applications. Excellent ripple and noise specifications assure compatibility with circuits using CPUs, ASICs, programmable logic, and FPGAs. Ideal for battery-powered equipment, applications for the HPQ-12/25-D48 include small instruments, area-limited microcontrollers, data communications equipment, remote sensor systems, and portable electronics.

For systems requiring controlled startup/shutdown, remote On/Off control is available with negative or positive polarity. Users can also trim the output voltage of the HPQ-12/25-D48 up or down by ±10% with an external trim resistor. It also offers input-output isolation with Basic insulation up to 2,250 VDC. In addition, with a low profile open frame package, the HPQ-12/25-D48 operates within the industrial temperature range of -40 to 85°C.

The power supply is designed to meet UL/EN/IEC 60950-1 2nd edition safety approvals and is RoHS-6 compliant. Optional features include: a baseplate that boosts the HPQ-12/25-D48's impressive thermal performance, conformal coating, trim and sense functionality, and various pin lengths.

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