

November 2008

Ref.: MPS329A

Murata Power Solutions

[www.murata-ps.com](http://www.murata-ps.com)

## News Release

**UWE Series are world's first eighth-brick DC/DC Converters to offer 4:1 ultra-wide input voltages**



- *Ultra-wide input of 9VDC to 36VDC or 18VDC to 75VDC*
- *Fixed output providing up to 75W of power*
- *Pin compatible with quarter-brick modules to allow space saving replacement*
- *1500VDC input to output isolation (basic insulation)*

Murata Power Solutions has introduced a new series of isolated DC/DC Converters that are the world's first modules to offer 4:1 ultra-wide input in an eighth-brick format with 9VDC to 36VDC or 18VDC to 75VDC input. The UWE series provides a fixed output of up to 75W making it ideal as a space saving drop-in replacement for commonly used 100W quarter-brick devices where the full 100W power is not needed.

Typical applications for the UWE series include mobile and battery powered devices, test equipment, telecoms and wireless, plus distributed power architectures in markets such as industrial, military & aerospace, networking & wireless telecom and office equipment.

The UWE series provides a choice of fixed output voltages of between 3.3VDC and 24VDC to ensure compatibility in embedded equipment, CPU cards and instrument sub-systems. The eighth-brick industry standard through-hole package has overall dimensions of 22.9mm (0.9in.) x 58.4mm (2.3in.) x 9.1mm (0.36in.) high. Operating temperature range is -40°C to +85°C with derating.

The UWE series has a synchronous rectifier design that provides very high efficiency and low power dissipation, allowing the DC/DC Converters to be used without fans or temperature derating in many applications. An optional thermal mounting baseplate is available to allow operation in the most difficult applications and environments.

No reverse conduction allows monotonic start up into pre-biased loads for greatest application flexibility. The UWE series features remote On/Off control, trim, and remote sense functions to provide compensation for line drop errors at high output currents. Extensive self-protection features prevent potential damage to both the converter and outside circuits, including pre-bias operation, input undervoltage, and output short circuit, overcurrent and over temperature protection. Overloads automatically recover using the 'hiccup' technique upon fault removal.

The UWE series provides 1500Vdc isolation voltage and is designed to meet UL/EN/IEC 60950-1, CAN/CSA-C22.2 No. 60950-1 safety approvals and complies with the requirements of RoHS-6 and FCC RFI/EMI certification.

Ends

### **About Murata Power Solutions**

Murata Power Solutions ([www.murata-ps.com](http://www.murata-ps.com)) is headquartered in Mansfield, Massachusetts, with over 1,300 employees, and locations in the USA, Canada, England, France, Germany, Singapore, Japan and China. Murata Power Solutions designs, manufactures and distributes DC/DC Converters, AC/DC Power Supplies, Magnetics, Data Acquisition devices and Panel Meters, and offers these products in custom, standard and modified-standard variations. These products, which are built to exacting requirements in ISO9000:2000-approved facilities, are typically used worldwide within telecommunications, computing, industrial and other high-tech applications.

### **About Murata**

Based in Kyoto Japan, Murata Manufacturing Company Ltd is one of the world's leading providers of ceramic based components, sensors, and AC/DC and DC/DC power solutions. Founded in 1950, the company has over 34,000 employees worldwide, and over \$6.3 billion US in consolidated annual sales (as of March 31, 2008). Everywhere in the world, wherever you can reach, Murata's electronic components are always at work.

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