

August 2008

Ref. MPS276A UEI series

Murata Power Solutions

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

## News Release

**DC/DC Converters with 4:1 input deliver 18A/60W regulated**

**3.3V output in 1.6in. x 2in. package**



- *9-36VDC or 18-75VDC inputs*
- *Highest current from Industry-standard open-frame package and pinout*
- *Start up capability into pre-biased loads*
- *Extensive self-protection and shutdown features*
- *RoHS compliant and fully safety approved*

Murata Power Solutions has introduced its new UEI-series of isolated, wide-range DC/DC Converters that deliver industry leading 50-60W of power output

from a standard 40.6 x 50.8 x 10.16mm (1.6in. x 2in. x 0.4in.) PCB mounted, open frame package; plastic cased versions are available upon request.

The regulated UEI series has an operating temperature range of  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$  and is ideal for a wide range of ‘current hungry’ applications including industrial, wireless and mobile communications, transportation, medical and instrumentation. The offering includes two 4:1 ultra-wide range input voltages: 18–75VDC  $V_{in}$  combined with outputs of either 3.3V @ 18A or 5.0V @ 12A for a total power of 60W, and 9-36VDC input, combined with 3.3V @ 15A, 5.0V @ 10A and 12V @ 4.2A for 50W of output power. Capable of stable no-load operation without external components, the UEI series uses a synchronous rectifier forward topology for high efficiency operation resulting in minimal heat build-up and the ability to be operated using convection cooling and without the need for fans. Full magnetic and optical isolation of up to 2250VDC provides basic insulation. Excellent ripple and noise specifications assure compatibility to circuits using CPUs, ASICs, programmable logic and FPGAs.

Extensive self-protection and shutdown features are incorporated in the new design, including: input under-voltage lockout, over-temperature protection, over-current ‘hiccup’, auto re-start, output overvoltage protection and reverse

conduction immunity. Additional features include monotonic start-up, output voltage trim and remote on/off with either positive or negative logic.

The UEI series is fully RoHS compliant and all versions possess UL60950-1, CSA-C22.2 No.60950-1 and IEC/EN60950-1 safety approvals.

## **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, 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 26,000 employees worldwide, and over \$4.9 billion US in consolidated annual sales (as of March 31, 2007). Everywhere in the world, wherever you can reach, Murata's electronic components are always at work.

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