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Murata Power Solutions
www.murata-ps.com

News Release

Front End power supply combines high efficiency and power density to save energy and space in distributed power architecture systems



- *12V single outputs delivering 1200W or 1600W output power*
- *Efficiency up to 90.9%*
- *Power density up to 17.9W/in.³*
- *Compact dimensions with 1U low-profile height and 4" wide*
- *20W standby power supports system housekeeping & monitoring applications*
- *Optional 19" powershell holds four power supplies to provide 4.8kW power*

Murata Power Solutions has introduced a new family of AC/DC Front End power supplies that deliver bulk power with high efficiency of up to 90.9% and high power density up to 17.9W/in.³ The new units are ideal for use in servers, network equipment and other distributed power architecture applications. The D1U4-W series is housed in a 1U low-profile package and is offered with output power of 1600 W (220VAC) or 1200W (110VAC) and main output voltages of 12V.

The D1U4-W series has active power factor correction and features active current sharing on its main output. Integrated OR-ing FETs support N+1 operation including hot docking. In addition to the main output, standby outputs of either 3.3V or 5V that give up to 20W of standby power are provided to support system housekeeping and monitoring requirements. The highly efficient electrical and thermal design uses proven topology and components and includes integral cooling fans to further support highly reliable operation; the D1U4-W series is an extension of the D1U product family that has a demonstrated field reliability of 6.8 million hours.

Protection features include auto-recovery from both over-current and over-temperature faults. Status information is provided via front panel LEDs, logic signals and an I²C management interface.

Overall dimensions of the D1U4-W Front End power supply are 355.6mm (L) x 101.6mm (W) x 41mm (H) – (14.0in. x 4.0in. x 1.6in.). If required, four units can be packaged together in an optional 19in. power shelf (S1U-4X) to provide up to 4.8kW of power. All models are fully RoHS compliant and are EMC class A rated. Operating temperature range is 0°C to +50°C.

Ends

About Murata Power Solutions

Murata Power Solutions (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 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.

Contact:

John Sutherby, Marketing Communications Department
Telephone: +1-508-339-3000 x 117

Issued by/more information from:

Simon Krelle, Pinnacle Marketing Communications Ltd
Tel: +44 (0) 7973 821036 Fax: +44 (0) 20 868 4373.
E-mail: simonk@pinnaclemarcom.com
Web: www.pinnacle-marketing.com

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