EMERSON
Network Power

news release

EMERSON NETWORK POWER LAUNCHES LOW-PROFILE
720 WATT POWER FACTOR CORRECTION MODULE

High power density 61 x 89 x 14 mm package suits space-constrained applications

CARLSBAD, Calif. — October 8, 2007 — Emerson Network Power, a business of Emerson (NYSE: EMR), has launched a 720 watt power factor correction module that has a 61 x 89 mm footprint and a mounting height of just 14 mm, making it ideal for space-constrained applications. The new AIT02ZPFC module features a universal input that accepts any voltage in the range 85 to 264 Vac at any frequency from 47 to 63 Hz and from 360 to 800 Hz.

The AIT02ZPFC module presents a near unity power factor to the incoming power line, and generates a typical output of 393 Vdc, which is intended for feeding to one or more high voltage dc-dc converters for further down-conversion to the low voltages required by the application. Emerson Network Power produces a number of compatible high voltage half-brick and full-brick dc-dc converters, with outputs ranging from 1.8 to 48 Vdc. This fully modular approach enables users to build complete high performance, low profile ac-dc power supplies with minimal non-recurring engineering costs and fast turnaround.

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When fed with a 230 Vac input, the AIT02ZPFC module has a typical power conversion efficiency of 93%; it can deliver up to 1.83 A @ 393 Vdc and achieves a power density in excess of 155 watts per cubic inch. The module uses active power factor correction to minimise input harmonic current distortion and ensure compliance with the RTCA/DO-160D avionics standard at 115 Vac at full load, and EN61000-3-2.

A number of built-in control and monitoring functions make the AIT02ZPFC module easy to integrate within a system. Remote-enable and temperature monitoring functions are provided as standard, and the output voltage can be adjusted from 79% to 100% of nominal via a single control pin. Inrush current is limited by an external resistor.
AIT02ZPFC modules are fully encapsulated and have an aluminium baseplate for conduction cooling. They have no minimum load requirement and operate over a wide baseplate temperature range of -20 to +100 degrees Celsius. Input-to-baseplate and output-to-baseplate isolation is rated at 2,700 Vdc, and leakage current is held to less than 3 ma at 800 Hz input frequency. The modules are fully protected against over-voltage and over-temperature conditions and carry a full set of international safety agency approvals, including EN60950 TUV and UL/cUL60950.

About Emerson Network Power
Emerson Network Power, a business of Emerson (NYSE:EMR), is the global leader in enabling Business-Critical Continuity™. The company is the trusted source for adaptive and ultra-reliable solutions that enable and protect its customers' business-critical technology infrastructures. Backed by the largest global services organisation in the industry, Emerson Network Power offers a full range of innovative power, precision cooling and connectivity products and services for computer, communications, healthcare and industrial systems. Key product brands within the Emerson Network Power family include Liebert, ASCO, Astec, Artesyn and Lorain. For more information on power supplies visit www.astecpower.com or www.artesyn.com. For more information on the full range of technology solutions from Emerson Network Power, visit www.emersonnetworkpower.com.

About Emerson
Emerson (NYSE: EMR), based in St. Louis, is a global leader in bringing technology and engineering together to provide innovative solutions to customers through its network power, process management, industrial automation, climate technologies, and appliance and tools businesses. Sales in fiscal 2006 were $20.1 billion. For more information, visit www.gotoemerson.com.

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