



**EMERSON NETWORK POWER LAUNCHES HIGH EFFICIENCY
100-150 WATT AC-DC POWER SUPPLY**

Compact form factor: 5.1 x 10.2 cm (2 x 4 inch) footprint and height of only 3.3 cm

Features ITE and medical safety approvals

Merry Hill, UK — 3rd July 2008 — Emerson Network Power, a business of Emerson (NYSE: EMR) and the global leader in enabling *Business-Critical Continuity™*, has launched a high efficiency 100-150 watt ac-dc supply that features both ITE and non-patient contact and non-patient critical medical safety approvals. The new LPS103-M power supply is a compact open-frame design; measuring just 5.1 x 10.2 cm (2 x 4 inch), with a height of only 3.3 cm, it has a typical full load efficiency of 88 percent and a power density of 0.9 watts per cubic centimetre. The supply is primarily intended for use in information technology equipment (ITE) and light industrial systems, as well as for equipment intended for non-patient contact and non-patient critical use in low power medical, dental and laboratory applications.

The LPS103-M features a universal 85-264 Vac input – enabling it to be used anywhere in the world – and is also capable of operating from a 120-300 Vdc input. The power supply produces a tightly regulated main 12 Vdc output, together with an isolated 12 Vdc fan output; the latter is rated at 1 A, while the main output can deliver up to 8.3 A continuously with convection cooling, or up to 12.5 A continuously with 30 CFM forced air cooling. The main output can be adjusted over the range 10.8 to 13.2 Vdc, and remote sense facilities are provided to compensate for a drop of up to 0.5 V between the output terminals and the load.

Active power factor correction is employed to minimise input harmonic current distortion and ensure compliance with the international EN61000-3-2 standard – the LPS103-M has a power factor of 0.99 typical. The power supply has a maximum safety-ground leakage

current of 275 μ A, and the main output has a hold-up time of 16 ms minimum when the supply is fed with a 120 Vac input and is delivering 150 watts of output power.

LPS103-M power supplies are comprehensively protected against overvoltage, overtemperature and short-circuit conditions, and feature a 'power fail' signal for remote monitoring purposes which will change state at least 6 ms before the main output loses regulation. The power supplies have a full load ambient operating temperature range of 0 to +50 degrees Celsius without de-rating and can cold-start from temperatures as low as -20 degrees Celsius. Between 50 and 70 degrees Celsius, the output should be derated by 2.5 percent per degree.

Emerson Network Power's LPS103-M ac-dc power supplies comply with the rigorous EN55022-B and FCC part 15 Level B EMC standards for conducted noise and meet all applicable immunity standards, including EN61000-4-2, -3, -4, -5, -6, -8 and -11 levels 3. The power supplies carry a wide set of safety approvals, including UL/TUV/CSA 60950-1 and non-patient contact and non-patient critical 60601-1.

LPS103-M ac-dc power supplies are available for immediate delivery. Standard lead-time is stock to 8 weeks.

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About Emerson Network Power

Emerson Network Power, a business of Emerson (NYSE:EMR), is the global leader in enabling *Business-Critical Continuity™* from grid to chip for telecommunication networks, data centres, health care and industrial facilities. Emerson Network Power provides innovative solutions and expertise in areas including AC and DC power and precision cooling systems, embedded computing and power, integrated racks and enclosures, power switching and controls, monitoring, and connectivity. All solutions are supported globally by local Emerson Network Power service technicians. For more information on Emerson Network Power's embedded power products and services for original equipment manufacturers and system integrators visit www.powerconversion.com. Learn more about Emerson Network Power products and services at www.emersonnetworkpower.com.

For more information about the new LPS103-M ac-dc power supply, please visit