# Power supplies include input range of 120 to 277 Vac

Emerson Network Power today announced a new series of high efficiency power supplies for LED lighting, the LDS25 series. The new 25 watt series joins the company's LDS70 series 70 watt products for this fast-growing market. This off-the-shelf availability of high efficiency, pre-certified power solutions enables original equipment manufacturers and system installers to reduce their time-to-market significantly using reliable LED lighting drivers from one of the largest manufacturers of power supplies in the world.

Emerson Network Power's new LDS25 series 25 watt LED power supplies have an input range of 120 to 277 Vac and can deliver up to 700 mA at 36 Vdc. Constant current and constant voltage output modes accommodate different LED application requirements. Constant current mode operates from 36 V down to 26 V, while constant voltage mode operates with load currents from 300 to 700 mA or to the programmed current limit level - which can be set by a single resistor to any value within this range. Alternatively, the output current can be user adjusted over its full 0 to 700 mA range by an IEC 60929 compliant dimming function, controlled by a standard 0 to 10 V signal.

Active power factor correction enables the Emerson Network Power LDS25 power supplies to achieve a power factor of at least 0.9 and they have a high conversion efficiency of 86 percent typical. They are rated for operation over an ambient temperature range of minus 30 to 60 degrees Celsius or a case temperature range of minus 30 to 90 degree Celsius, with no need for forced air cooling. Ideal for a wide range of indoor applications, the new LDS25 LED lighting power supplies are available in open-frame and IP20 rated cased versions for customer flexibility. The open frame model has a very small footprint of 5.8 x 1.6 inches (147 x 42 mm) and

a height of just 1.1 inches (28 mm), while the IP20 cased model is 6.87 x 1.80 inches (174.5 x 45.6 mm) and is 1.26 inches (32 mm) high.

Emerson Network Power LDS25 series power supplies fully comply with the CISPR 15 requirement for EMI and meet FCC part 15 conducted noise standards. They are comprehensively protected against short-circuit, overvoltage and overtemperature conditions. The LDS25 series additionally features hot-wiring protection, which automatically limits the rate of increase of output current to prevent damage to the LED and driver circuits.

Critical safety specifications include EN 61347-2-13 and UL 8750, which are specific to LED related applications, and the LDS25 series also complies with CSA C22.2 No. 107.1 and CE LVD directives.

Sample quantities of the LDS25 series LED power supplies are available now. For more information, see the LDS25 websheet (www.powerconversion.com/products/websheet/448/LDS25 [1]).

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**Links:**
[1] http://www.powerconversion.com/products/websheet/448/LDS25