Power supply series adds 310-W and 1500-W models with industrial and medical safety approvals

Emerson Network Power launched two new models in the LCM Series of AC-DC power supplies. With the addition of the LCM300 and LCM1500, rated for 310 W and 1,500 W loads, alongside the existing 600 W LCM600 unit, the series can now provide for a wide range of AC-DC embedded power requirement. Featuring high build quality with robust screw terminals, long life, and typical full-load efficiency of greater than 91 percent, according to the company, these units are suitable for use in industrial and medical applications and are backed by safety approvals and certificates. Variable-speed ‘Smart Speed’ fans draw on software controls developed by the company to match fan speed to the unit’s cooling requirement and load current. Slowing the fan not only saves power but also reduces wear, thus extending its life. The MTBF of the LCM300 and LCM1500 units is greater than 500,000 hours.

A sophisticated digital control loop optimizes efficiency across a wide load range. The efficiency of both the LCM300 and LCM1500 is greater than 91 percent at full load (230 Vac nominal input), and is at least 80 percent at all loads higher than 25 percent. Power factor correction is implemented internally, offering a typical power factor of 0.99 (LCM1500) or 0.98 (LCM300).

Both units accept operating inputs between 90Vac and 264Vac. Maximum input current for the LCM300 is 5 A, and 18 A for the LCM1500. The compact LCM300 has a power density of 6.86 W/in3, and the LCM1500, 12 W/in3.

Both the new LCM series units will be available in versions offering 12, 15, 24, 36, and 48V outputs; the LCM1500 additionally offers a 28 V unit. All output voltages can be trimmed to ±20 percent (LCM300) or ±10 percent (LCM1500) of their nominal value, which means that almost any output voltage between 10 and 53 V

can be provided by LCM series parts.

The LCM300 and LCM1500 safety certificates include UL (60950-1, 508/1598/1433, and 60601-1 Ed 3); CSA (60950-1); VDE (60950-1 and 60601); China (CCC); and CB Scheme international certification. The power supply meets EMI Class B and EN61000 standards for conducted noise and the Restriction of Hazardous Substances (RoHS) 2 directive.

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