

ARTESYN LCM SERIES

LCM300 | LCM600 | LCM1000 | LCM1500 | LCM3000



Digitally-Controlled AC-DC Power Supplies

Advanced Energy's Artesyn LCM series of AC-DC power supplies provide outstanding quality and high efficiency at a competitive cost and includes safety approvals for industrial and medical equipment. The LCM series MTBF is greater than 500,000 under normal operating conditions due to careful component selection, automated production processes, sophisticated circuit design, and a digital control loop. Digital control enables rapid and cost-effective modifications to suit the exact needs of your application. With short lead times and low minimum order quantities for non-stock units, integrating a custom configuration from Advanced Energy into your design is easy.

Benefits

- 89 to 93% typical full-load efficiency
- 9.6 to 57.6 V output, up to 79.2 V for LCM3000
- Optional 5 V @ 2 A standby, standard on LCM3000
- 2XMOPP
- Optional conformal coat
- Operating temperature -40 to +70°C (derating >50°C)

Applications

- Process control
- Imaging
- Dental
- Medical
- Laboratory
- Factory automation

Variable speed 'Smart Speed' fans draw on software controls developed by us to match fan speed to the power supply's cooling requirement and current load. Managing the fan in this way save power and reduces wear—extending the life of the product. These innovative fan controls also enable you to keep very low acoustic noise levels while providing self-contained thermal management.

Operating Inputs and Output Voltages

LCM series power supplies accept operating inputs between 90 and 264 VAC (85 to 264 VAC for LCM600). Models are available in versions offering 12, 15, 24, 36, and 48 V outputs with additional offerings for LCM1500 (28 V) and LCM3000 (18 V and 72 V). All output voltages can be trimmed to a percentage of their nominal value ($\pm 10\%$ or $\pm 20\%$ depending on the model), which means that almost any output voltage between 9.6 and 57.6 V can be provided by LCM series power supplies.

Sharing Capabilities

Current sharing capability allows multiple power supplies to be connected in parallel for higher power applications. Power factor correction is implemented internally, offering a typical power factor of 0.95, 0.98 or 0.99. An o-ring FET provides

protection in the event that an input power source fails, while the units also feature overload protection (OCP), overvoltage protection (OVP) and overtemperature protection (OTP).

Medical Safety Approvals

The LCM series medical safety approvals are compliant with the third edition of the ANSI/AAMI ES60601-1:2005 / IEC 60601-1 safety standard. Medical safety compliance extends to providing 2xMOPP (means of patient protection) and the complete risk management files required by the 3rd edition.



LCM300 Series

310 W Total Power

- 350 W peak power for some models
- 7.1 W per in³
- 177.8 x 101.6 x 41 mm
(7 x 4 x 1.61 in)



LCM1500 Series

1500 W Total Power

- Optional constant current
- 12 W per in³
- 254 x 132 x 63.5 mm
(10 x 5.2 x 2.5 in)



LCM600 Series

600 W Total Power

- Optional constant current
- 7.41 W per in³
- 190.5 x 114.3 x 61 mm
(7.5 x 4.5 x 2.4 in)



LCM3000 Series

3000 W Total Power

- Optional constant current
- 15.7 W per in³
- 276.9 x 177.8 x 63.5 mm
(10.9 x 7.0 x 2.5 in)



LCM1000 Series

1000 W Total Power

- Optional constant current
- 7.7 W per in³
- 254 x 132 x 63.5 mm
(10 x 5.2 x 2.5 in)



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ABOUT ADVANCED ENERGY

Advanced Energy (AE) has devoted more than three decades to perfecting power for its global customers. We design and manufacture highly engineered, precision power conversion, measurement and control solutions for mission-critical applications and processes.

Our products enable customer innovation in complex applications for a wide range of industries including semiconductor equipment, industrial, manufacturing, telecommunications, data center computing, and medical. With deep applications know-how and responsive service and support across the globe, we build collaborative partnerships to meet rapid technological developments, propel growth for our customers, and innovate the future of power.

PRECISION | POWER | PERFORMANCE

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