



Process Control | Imaging | Dental | Medical | Laboratory | Factory Automation

COST-EFFECTIVE DIGITALLY-CONTROLLED POWER SUPPLIES

Artesyn LCM series AC-DC power supplies have built a reputation for outstanding quality and high efficiency at a competitive cost, with safety approvals for industrial and medical equipment.

The quality and reliability of the LCM series is assured through careful component selection, automated production processes, sophisticated circuit design and a digital control loop. Digital control also enables the LCM family to be rapidly and cost-effectively modified to suit the exact needs of your application.

Detailed technical reference notes and outstanding technical support make it easy for you to integrate the LCM series into your design.

Artesyn has invested in the manufacturing of the LCM series to shorten lead times and lower the minimum order quantity for non-stock units.



**Digital
Control**

300 - 3000 W

**High
Density**

**Single
Output**

**Medical
Approvals**

**High
Reliability**

**Market-Leading
Efficiency**

LCM Series AC-DC Power Supplies

The LCM series AC-DC power supplies maintain Artesyn's high standards of quality and reliability, with robust screw terminals and long life components.

Many models in the LCM series do not require any derating at low line, unlike many other units on the market.

Variable-speed 'Smart Speed' fans draw on software controls developed by Artesyn to match fan speed to the power supply's cooling requirement and load current. Managing the fan in this way not only saves power but also reduces wear, thus extending its life. These innovative fan controls also enable you to keep the acoustic noise levels very low, while providing self-contained thermal management.

LCM series power supplies accept operating inputs between 90 Vac and 264 Vac (85-264 Vac for LCM600). Models are available in versions offering 12, 15, 24, 36, and 48 V outputs; the LCM1500 additionally offers a 28 V unit and LCM3000 additionally offers 18 V (*) and 72 V (*) units.

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.

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 ORing 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).

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.

89% - 93% typical full-load efficiency

9.6 - 57.6 V output

Optional 5V @ 2A standby

2XMOPP

Optional conformal coat

Operating temperature -40 °C to +70 °C
(derating above 50 °C)

5 YEARS
manufacturer's
warranty

MTBF greater than
500,000
hours under normal
operating conditions

(*) LCM3000 18 V and 72 V – Coming Soon



310 W Total Power

LCM300 Series

- 350 watts peak power for some models
- 7.1 watts per cubic inch
- 7 x 4 x 1.61 inches
- 177.8 x 101.6 x 41 mm



600 W Total Power

LCM600 Series

- 7.41 watts per cubic inch
- 7.5 x 4.5 x 2.4 inches
- 190.5 x 114.3 x 61 mm
- Optional constant current



3000 W Total Power

LCM3000 Series

- 15.7 watts per cubic inch
- 10.9 x 7.0 x 2.5 inches
- 276.9 x 177.8 x 63.5 mm
- Optional constant current



1000 W Total Power

LCM1000 Series

- 7.7 watts per cubic inch
- 10 x 5.2 x 2.5 inches
- 254 x 132 x 63.5 mm
- Optional constant current



1500 W Total Power

LCM1500 Series

- 12 watts per cubic inch
- 10 x 5.2 x 2.5 inches
- 254 x 132 x 63.5 mm
- Optional constant current

About Artesyn Embedded Power

Artesyn Embedded Power, an Advanced Energy company, is a global leader in the design and manufacture of highly reliable power conversion solutions for a wide range of industries including communications, computing, server storage, healthcare and industrial. For more than 40 years, customers have trusted Artesyn to help them accelerate time-to-market and reduce risk with cost-effective power conversion solutions. Artesyn has over 8,000 employees worldwide across multiple engineering centers of excellence, wholly-owned world-class manufacturing facilities, and global sales and support offices. Artesyn Embedded Power is a registered, assumed name of Artesyn Embedded Technologies, Inc., an Advanced Energy company.

About Advanced Energy

Advanced Energy (Nasdaq: AEIS) is a global leader in the design and manufacturing of highly engineered, precision power conversion, measurement and control solutions for mission-critical applications and processes. AE's power solutions enable customer innovation in complex applications for a wide range of industries including semiconductor equipment, industrial manufacturing, telecommunications, data center computing server storage and healthcare. With engineering know-how and responsive service and support around the globe, the company builds collaborative partnerships to meet technology advances, propel growth for its customers and innovate the future of power. Advanced Energy has devoted more than three decades to perfecting power for its global customers and is headquartered in Fort Collins, Colorado, USA. For more information, visit www.advancedenergy.com.

Advanced Energy | Precision. Power. Performance.



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