

# Single-output Power Supplies Accept Wide AC Input



TDK-Lambda has unveiled its latest addition to its line of AC-DC medical and ITE (Information Technology Equipment) power supplies. The new single-output CSS150 series are 100 to 150-watt supplies that accept a wide AC input range, have a low profile of only 1.3" and a compact footprint of 3" x 5", making them an ideal choice for applications in non-patient contact medical/dental, light industrial, business, gaming, point-of-sale and instrumentation equipment, to name a few.

These new open-frame supplies feature a universal 90-264Vac, 47-440Hz input, enabling them to be used anywhere in the world. Plus, they can operate from a 120-180Vdc input. These supplies feature a low leakage current of less than 250 $\mu$ A at 264Vac, 63Hz, which is important for many non-patient contact medical and dental applications. In addition, the CSS150 is designed to withstand 4kVac, input-to-output. The series are available with an output voltage of 12V, 15V, 36V, or 48Vdc, all of which have a +/-3% adjustment range.

With convection cooling (no fans required) these supplies provide up to 100-watts of output power. For higher power applications, with forced air cooling of 2.5 m/s, the output power increases to 150-watts. The operating temperature range is from 0°C to +70°C and the output is floating so it can be used as either a positive or negative polarity.

Remote On/Off connections are provided to allow for remote control of the supply. The off-load power draw is less than 0.5-watt, which complies with many energy-saving initiatives, plus the operating power-saving efficiency is typically 89%. Other standard features include overvoltage and overcurrent protections. The input and

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output connections mate with standard Molex connectors. And, fuses are provided internally on both the AC Line and Neutral inputs (dual fuses).

The CSS150 series have global medical safety agency approvals per UL/EN/IEC60601-1 as well as ITE and general purpose safety agency approvals per UL/EN60950-1, are CE Marked, meet the conducted and radiated EMI requirements of EN55022-B and FCC Class B (which is much tougher to meet than Class A), and they are RoHS compliant.

These units are available now and economically priced at \$40.00 each in 1000 piece quantities. More information is available at TDK-Lambda's website:

<http://www.us.tdk-lambda.com/lp/products/css-series.htm> [1]

### About TDK-Lambda

TDK-Lambda is a subsidiary of the TDK Corporation, a leading global electronics company and has been a major provider of power solutions for over 60 years. The company designs and manufactures a wide range of AC-DC and DC-DC power products for Medical, Industrial, Com-munications and Test & Measurement applications worldwide. For more information, call TDK-Lambda directly at 619-575-4400 or visit the website at: [www.us.tdk-lambda.com/lp](http://www.us.tdk-lambda.com/lp) [2]

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