Power supplies accept wide AC input range

TDK-Lambda has unveiled its latest addition to its ZWS line of compact AC-DC pcb-mountable power supplies. The new single-output ZWS-BAF series are 100 and150-watt supplies that accept a very wide AC input range, have a low profile of 1.3 to 1.45” and compact footprints of 2.44” x 6.1” or 3” x 6.3”, making them an ideal choice for applications in light industrial, LED signage, test & measurement, gaming, point-of-sale and IT equipment.

These new open-frame supplies feature a universal 85-264Vac, 47-63Hz input, with PFC, enabling them to be used anywhere in the world. Plus, they can operate from a 120-370Vdc input. The ZWS-BAF is designed to withstand 3kVac, input-to-output. The series are available with an output voltage of 3.3V, 5V, 12V, 15V, 24V or 48Vdc, all of which have a +/-10% adjustment range.

With convection cooling (no fans required) these supplies provide up to 150-watts of output power. The operating temperature range is from -10°C to +70°C with derating above 50°C to 50% load. The output is floating so it can be used as either a positive or negative polarity.
Optional remote On/Off connections are provided to allow for remote control of the supply. The operating power-saving efficiency is up to 90%. Other standard features include overvoltage and overcurrent protections. The input and output connections mate with standard JST connectors.
The ZWS-BAF series is an extension of the very successful ZWS series, which were employed in the high-definition Diamond Vision video displays that were built by Mitsubishi Electric and have been used to power some of the world’s largest LED displays located at the Cowboys Stadium (Texas), Yankee Stadium (New York) and many other global sites. TDK-Lambda power supplies were selected for their long-term reliability and quality.

The ZWS-BAF series feature global ITE and general purpose safety agency certifications per UL/CSA/EN60950-1, EN50178 (OV II), are CE Marked, meet the conducted and radiated EMI requirements of EN55011/EN55022-B, VCCI-B and FCC Class B, which is much tougher than Class A. These units are RoHS compliant and include a 5-year warranty, which is one of the longest-term warranties available in this power range.

These units are available now and economically priced, starting at $57.00 each in 500 piece quantities. More information is available at TDK-Lambda Americas' website:
http://www.us.tdk-lambda.com/lp/products/zws-series.htm [1], or by calling 1-800-LAMBDA-4.

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