Convection Cooled, Compact 300-Watt Power Supplies

MDT Staff

TDK Corporation announces the release of TDK-Lambda's latest addition to its ZWS line of compact AC-DC power supplies. The new single-output ZWS300BAF series provides 300-watts with convection cooling (no fans required). This design eliminates the need for fan maintenance and reduces acoustic noise and vibrations. These units have a low profile of only 1.45", and a compact footprint of 3.31" x 7.01", making them an ideal choice for applications in light industrial, LED signage, test & measurement, communications, gaming, point-of-sale and IT equipment.

The supplies operate from a universal input of 85-264Vac, 47-63Hz, with PFC, enabling them to be used anywhere in the world. Moreover, they can operate from a 120-370Vdc input. As is the case with all models in the ZWS-BAF series, with output ratings from 50W to 300W, they can withstand 3kVac, input-to-output. The ZWS300BAF series are available with an output voltage of 24V, 36V, or 48Vdc, all of which have a +/-10% adjustment range.

The convection-cooled operating temperature range is from -10°C to +70°C with derating above +45°C. The power supply can be operated at up +60°C without derating if forced air cooling is available in the system and can be routed through the supply. The power-saving efficiency is up to 91%. Other standard features include overvoltage and overcurrent protections. Optional remote On/Off connections can be provided to allow for remote control of the supply, and if employed, the standby (Off) power consumption is only 0.5W, which is an important requirement in many 'Green' initiatives.

The ZWS-BAF series is an extension of the extremely 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. These units include a 5-year warranty, which is one of the longest-term warranties available in this power range.

For more information, visit www.us.tdk-lambda.com/lp/products/zws-series.htm [1].

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