

## LATEST 250W SINGLE OUTPUT POWER SUPPLY FROM TDK-LAMBDA

TDK-Lambda announces a new 250W ac-dc power supply, the GWS250, that achieves up to 93% efficiency, dramatically cutting the heat generated in industrial, traffic controls, automated service, kiosks, test & measurement, LED, display & signage, IT and entertainment systems.

The improvement in efficiency offered by the GWS250 means that it dissipates less heat, reducing or eliminating the requirement for heatsinks, or fans for forced-air cooling. Removing the need for fans greatly increases reliability while reducing cost, audible noise, system complexity and size. Avoiding audible noise is particularly important in certain applications, where it disturbs people. Both conducted and radiated emissions are below Class B limits as defined by EN55022, another important consideration in achieving type approval for test & measurement equipment.

The power supply delivers full output power with convection cooling over input voltages from 85 to 264Vac (47-63Hz) or 120-373Vdc, in ambient temperatures of -25 to +50°C (up to +70°C with output power derating) and can withstand a 300Vac surge for 5 seconds. It measures only 198 x 105 x 41mm, which makes it the smallest product in its class and well suited for fitting in 1U enclosures. Where short-term peak power is needed, for example for motor start-up, the power supply can deliver up to 300W for 10 seconds (24V & 36V output).

The units have a full feature set for controlling the supply and external monitoring and control equipment. This includes a 5V/300mA standby rail, remote on/off switching and power fail signals. Over current with hiccup mode (for 12V) and constant current limiting (for 24V, 36V, 48V), over voltage, over temperature protection are standard features as well as remote ON/OFF signal. Standby power draws less than 0.5W and average active efficiency above ErP requirements.

Nominal output voltages range from 12 to 48Vdc, delivering currents of up to 21A (for 12V). To accommodate non-standard system voltages the GWS250 is user adjustable either by using manual adjustment thru the built-in variable resistor (VR) or injecting an external programmable voltage (PV). Series operation is also possible.

GWS250 is UL/EN/IEC 60950-1 safety approved (2<sup>nd</sup> edition) and carry the CE mark. All models meet EN61000-4-2, -3, -4, -5, -6, -8, -11 immunity standards and also harmonic correction standards. With a MTBF of over 120K hours, per MIL-HDBK-217F (25°C) standard, the GWS Series comes with a five-year warranty.

For more information, please call TDK-Lambda directly at +65 6251 7211 or visit the website at: [www.tdk-lambda.com.sg](http://www.tdk-lambda.com.sg)

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**Editor's Notes:**

TDK-Lambda is a subsidiary of the TDK Corporation (NYSE: TDK), a leading global electronics company ([www.tdk.com](http://www.tdk.com)).

TDK-Lambda 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 Industrial, Medical, Telecom, Datacom, and Test & Measurement applications worldwide.

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**Keywords:**

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