

COMPACT 800-W PROGRAMMABLE POWER SUPPLY FEATURES DIGITAL CONTROLS

TDK Corp. has announced the expansion of TDK-Lambda's Z+ Series of programmable power supplies, which now includes the new 800-W models in addition to the previously released 200- and 400-W models. These high-density, high efficiency, 2U format, bench-top and rack-mountable power supplies are designed to meet the demands of a variety of ATE, laboratory, and OEM applications, including test and measurement, semiconductor burn-in, component test, and LED/laser test. They also serve RF-amplifier, electromagnetic, and electrochemical applications.

TDK-Lambda's new Z+800 provide 800 W of output power with a selection of output voltage ranges that cover from 0 to 100 VDC with output currents up to 72 A. The Z+ 800-W units are 66% smaller and 67% lighter than previous generations and provide a 200% increase in power density. All Z+ standard models are 3.27" high by 2.76" wide, so up to six units can be installed in the optional 19" rack housing; blanking plates are available for unused slots. The Z+ 200-W, 400-W, 600-W, and 800-W programmable power supplies have comprehensive front panel controls with individual rotary encoders for output current and voltage.

The controls also let users access power-supply settings such as OVP level, start-up mode, and remote control and monitoring of parameters. Separate 4-digit voltage and current displays are provided along with function/status LEDs, pushbuttons for output preview, output on/off, fine/coarse adjustment, and other features. Options for front panel output-jacks and multiple-unit housings are available for bench-top applications.

All Z+ models include built-in arbitrary waveform generation and storage for up to four preprogrammed functions; making them suitable for test and simulation tasks in the automotive, solar-panel and LED/laser industries, to name a few. These power supplies feature fast command processing times, output sequencing, and two programmable output pins that, for example, can be used to control isolation relays. Up to 12 voltage or current values can be programmed using the waveform creator software provided, and four waveforms can be stored in the Z+ unit's memory. More complex waveforms can be created using NI LabVIEW. These waveforms can be either repetitive or single-shot and injected into the system under test. The results can be analyzed confirming the proper or faulty operation of the powered device or system.

Source: <http://electroi.com/mysemicondaily/2013/05/09/compact-800-w-programmable-power-supply-features-digital-controls/>