

DC power supplies feature high-density, high efficiency



TDK Corporation announced the availability of TDK-Lambda Z+ Series of programmable DC power supplies. These high-density, high efficiency, 2U format, bench-top and rack mountable power supplies are designed to meet the demands of a wide variety of ATE, Laboratory and OEM applications, including: Test & Measurement, Semiconductor Burn-in, Component Test, LED/Laser Test, RF Amplifiers, Electromagnetic and Electrochemical applications.

TDK-Lambda's Z+400 provide 400-watts of output power with an output voltage range from 0 to 100Vdc and output currents up to 40A. The Z+400 are 33 percent smaller and 40 percent lighter than the previous generation (ZUP series) and similar products, thus providing a 49 percent increase in power density. The standard models are only 3.27" high by 2.76" wide, so up to 6 units can be installed in the optional 19" rack housing and blanking plates are available for unused slots. Options for front panel output-jacks and multiple-unit housings are available for bench-top applications. Later this year, 200W, 600W and 800W models with the exact same dimensions will be added to the Z+ Series.

The Z+ programmable power supply has comprehensive front panel controls with individual rotary encoders for output current and voltage, and access to power supply settings such as OVP level, start-up modes, remote control and monitoring parameters. Separate 4-digit volt and current displays are provided along with function/status LEDs, pushbuttons for output preview, output on/off, fine/coarse and

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other features.

The Z+ Series offers arbitrary function generation and up to 6 pre-programmed functions can be stored which make it ideal for automotive or laser simulation tasks.

Z+ power supplies feature a very fast command processing time, output sequencing and two programmable output pins that, for example, could be used to control isolation relays.

All models within the Z+400 Series can operate in either a constant-current or constant-voltage mode from a wide 85 to 265Vac input. They feature active power factor correction, variable speed fans and extensive safety features including user-selectable Safe-Start and Auto-Re-Start. With Safe-Start, the power supply returns to the last used settings after a power interruption, but with the output disabled. With Auto-Re-Start, the supply resumes normal operation without intervention after a power interruption, thereby meeting typical requirements for unattended use.

TDK Corp.

[1]www.us.tdk-lambda.com/lp [1]

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