Press Information TDK

Power Supply Products

50V, 200V, 400V and 500V Models Added to the GENESYS™ 5kW, 10kW and 15kW Advanced Programmable DC Power Supply Platforms.

Neptune, NJ – February, 2021

TDK Corporation announces the addition of the ***50V***, ***200V***, ***400V*** and ***500V*** models to the *5kW*, *10kW* and *15kW* power platforms of the *TDK-Lambda* ***GENESYS™ Programmable DC Power Supply Series*** which target the Automotive (Component and Subsystem) Aerospace System and Renewable Energy market segments to deliver higher Output current without the need to parallel multiple units.

All models are capable of *Constant-Voltage* (CV) and *Constant-Current* (CC) mode operation with automatic crossover between operating modes and also have a built-in user-settable *Constant-Power* (CP) limit function. They also have built-in *safety features* (Safe/Auto Re-Start and Last-Setting Memory) and *protection functions* (OVP, OVL, UVP, UVL, FOLD CV/CC, etc.) which allow the user to easily tailor the power supply to system start-up/shutdown and fault requirements.

Higher power systems can be achieved by paralleling multiple power supplies using the patented *Advanced Parallel* system that provides ripple/noise and dynamic load response characteristics similar to those of a single power supply.

Three-phase AC Input options include ***208VAC*** (170~265VAC) or a **wide-range *400VAC/480VAC*** (342~528VAC) and have built-in active Power Factor Correction (0.94 typical) with cooling fan speed control. A *Blank Front Panel* option (where front panel Local mode user access is not required) is also available along with an add-on *Air Filter Kit* (to minimize power supply dust infiltration).

Local/Remote interfacing is common across the entire product platform (1kW to 15kW) by multiple methods. These include local **front panel** control, remotely via the *built-in* **LAN (*LXI 1.5*)**, **USB (2.0)** or **RS-232/RS-485 Remote Digital** interfaces or by use of the *built-in* **Isolated Analog (5V/10V)** Interface. Optional rear panel **Remote Digital** Interfaces include either the **IEEE** (GPIB), **Modbus-TCP** or **EtherCAT** Interface. Instrument software drivers are also available as well as application software that includes a *Waveform Creator* (to create, store/load and trigger waveform sequence profiles) and a *Virtual Front Panel* GUI (with Status Logger, Constant Power Limit simulator and Solar Array simulator).

The GENESYS™ Programmable DC Power Supply platforms have Safety certifications to IEC/EN/UL/cUL 61010-1, are **CE** marked in accordance with the Low Voltage, EMC (IEC/EN 61204-3; industrial environment) and RoHS Directives and carry a five (5) year warranty.

For more information about the TDK-Lambda GENESYS™ Programmable DC Power Supply Series, please visit the TDK-Lambda Americas Programmable Power Supplies webpage at https://www.us.lambda.tdk.com/products/programmable-power/genesys-plus.html or fill out an online Information Request at https://www.us.lambda.tdk.com/contact/#contact.

Also available is the **Low-Cost, General Purpose** 1U Half-Rack ***Genesys™*** Programmable DC Power Supply Series and the ***SFL*** 300W/1kW Programmable DC Electronic Load Series along with a wide range of other TDK-Lambda Americas Programmable Power Supplies which can be viewed from the TDK-Lambda Americas website at https://www.us.lambda.tdk.com/products/programmable-power/.

About TDK Corporation

TDK Corporation is a world leader in electronic solutions for the smart society based in Tokyo, Japan. Built on a foundation of material sciences mastery, TDK welcomes societal transformation by resolutely remaining at the forefront of technological evolution and deliberately "Attracting Tomorrow." It was established in 1935 to commercialize ferrite, a key material in electronic and magnetic products. TDK's comprehensive, innovation-driven portfolio features passive components such as ceramic, aluminum electrolytic and film capacitors, as well as magnetics, high-frequency, and piezo and protection devices. The product spectrum also includes sensors and sensor systems such as temperature and pressure, magnetic, and MEMS sensors. In addition, TDK provides power supplies and energy devices, magnetic heads and more. These products are marketed under the product brands TDK, EPCOS, InvenSense, Micronas, Tronics and TDK-Lambda. TDK focuses on demanding markets in automotive, industrial and consumer electronics, and information and communication technology. The company has a network of design and manufacturing locations and sales offices in Asia, Europe, and in North and South America. In fiscal 2020, TDK posted total sales of USD 12.5 billion and employed about 107,000 people worldwide.

About TDK-Lambda Corporation

TDK-Lambda Corporation is a trusted, innovative leader and global supplier of highly reliable power conversion products for industrial and medical equipment worldwide.
TDK-Lambda Corporation is aligned for fast responses to any customer need with R&D, manufacturing, sales and service locations in five key geographic regions, namely Japan, EMEA, Americas, China and ASEAN.

For more details, please pay a visit to: www.jp.lambda.tdk.com/en/

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