

Power Supply Products

10kW Platform in 2U Height Extends the New Generation Advanced Full-Rack Programmable DC Power Supply Series

Neptune, NJ – June, 2019

TDK Corporation announces the introduction of the higher power 2U Full-Rack 10kW models to the **GENESYS™ Programmable DC Power Supply Series**. This expansion now provides the user with 10kW of Output power in a 2U high package and a choice of ten different models (ranging from 10V-1000A to 600V-17.5A) that have advanced performance and functionality well suited for Laboratory/R&D, Design and Test & Measurement environments and address broad market segments including Automotive, Aerospace, Semiconductor, Industrial and Renewable/Alternative Energy.

Built into a lightweight 2U high, 19" (483mm) wide rack-mountable chassis, the **GENESYS™ 10kW Power Supply Series** offers five embedded front panel setup menus that address **Digital Communication, Protective Functions, Operating Configuration, System Configuration, and System Triggering**. These embedded menus offer user-selectable functions including *Internal Resistance simulation* and *Slew-Rate control* of Output voltage/current and have the capability to generate, store, recall and activate up to four on-board *Arbitrary waveform* profiles.

All models can operate in *Constant-Current (CC)*, *Constant-Voltage (CV)* as well as the newly offered *Constant-Power (CP)* limit and have conversion efficiencies up to 92%. 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 (for reduced audible noise and extended life).

Standard safety features include user-selectable *Safe-Start/Auto Re-Start* and *Last Setting Memory* along with other built-in protective functions that include Output Over-Voltage Protection (OVP), Output Under-Voltage Limit (UVL), Output Under-Voltage Protection (UVP), Fold-Back protection (FOLD) for CV or CC mode, Output Over-Current Limit (OCL) and Over-Temperature protection (OTP). With *Safe-Start* configured, the power supply returns to its last operational settings after a power interruption but with the output disabled. With *Auto Re-Start* configured, the power supply returns to the last used operation settings after a power interruption. *Last Setting Memory* retains settings such as the Output voltage/current, Output ON/OFF, Output OVP/UVL/UVP level, Fold-Back (CV or CC), Output Over-Current Limit (OCL) and Start-Up mode (SAFE or AUTO) at each AC input turn-off sequence.

All model functions can be programmed locally via the menu-driven front panel display or remotely using software instrument drivers with any one of the **three** built-in standard Digital interfaces (**LAN (LXI 1.5)**, **USB (2.0)** and **RS-232/RS-485**). Other programming interfaces include the built-in standard 5V/10V Isolated Analog Program/Monitor/Control Interface and the optional **IEEE** (IEEE 488.2 & SCPI compliant) Digital interface.

The **GENESYS™** 2U 10kW Power Supply Series carries a five (5) year warranty, has Safety certifications to IEC/EN/UL/cJUL 60950-1 and is **CE** marked in accordance with the Low Voltage, EMC (IEC/EN61204-3; industrial environment) and RoHS2 Directives.

For more information about the TDK-Lambda 2U Full-Rack **GENESYS™** 10kW AC/DC Programmable Power Supply Series, please visit the TDK-Lambda Americas Programmable & High Voltage website at https://www.us.tdk-lambda.com/hp/product_html/genplus10.htm and fill out an online Information Request at https://www.us.tdk-lambda.com/hp/Form/request_genplus10.htm.

Also available is the low-cost general purpose 3U Full-Rack **Genesys™ 10kW DC Programmable Power Supply Series** along with a wide range of other TDK-Lambda Americas Programmable & High Voltage power supplies which can be viewed from the Programmable & High Voltage website at <http://www.us.tdk-lambda.com/hp>.

About TDK Corporation

TDK Corporation is a leading electronics company based in Tokyo, Japan. It was established in 1935 to commercialize ferrite, a key material in electronic and magnetic products. TDK's portfolio features passive components such as ceramic, aluminum electrolytic and film capacitors, and 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 the areas of information and communication technology and automotive, industrial and consumer electronics. The company has a network of design and manufacturing locations and sales offices in Asia, Europe, and in North and South America. In fiscal 2018, TDK posted total sales of USD 12 billion and employed about 103,000 people worldwide.

About TDK-Lambda Corporation

TDK-Lambda Corporation, a group company of TDK Corporation, is a leading global power supply company providing highly reliable power supplies for industrial equipment worldwide. TDK-Lambda Corporation meets the various needs of customers with our entire range of activities, from research and development through to manufacturing, sales, and service with bases in five key areas, covering Japan, Europe, America, China, and Asia.

For more details, please pay a visit to <http://www.tdk-lambda.com/>

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