

## Power Supply Products

# 1kW Platform Added to the **GENESYS™** Advanced 1U Half-Rack/Full-Rack Programmable DC Power Supply Series

Neptune, NJ – **November, 2020**

TDK Corporation announces the introduction of the TDK-Lambda **GENESYS™ 1U Half-Rack 1kW and 1U Full-Rack 1kW Programmable DC Power Supplies**.

These latest introductions add to the **GENESYS™** 1U Half-Rack platform (1.5kW), and complete the **GENESYS™** 1U Full-Rack platform (1.7kW, 2.7kW, 3.4kW and 5kW). They offer advanced performance and functionality well-suited for both bench-top and rack-mount product design and development in laboratory/R&D environments for market segments such as Automotive, Industrial, Semiconductor, Medical, Aerospace and Renewable/Alternative Energy.

Ten models are available with voltage ratings of 10V, 20V, 30V, 40V, 60V, 80V, 100V, 150V, 300V and 600V and operate from a wide-range single-phase AC input (85VAC ~ 265VAC) with built-in active Power Factor Correction (0.99 typical). They have built-in safety features (Safe/Auto Re-Start and Last-Setting Memory) and protection functions (OVP, OVL, UVP, UVL, FOLD CV/CC, etc.) and are capable of operating in *Constant-Current* (CC), *Constant-Voltage* (CV) or *Constant-Power* (CP) limit mode.

Any unit can be ordered with a *Standard Front Panel Display* (with front panel Lock/Un-Lock capability) or a *Blank Front Panel* (where front panel local-mode user access is not required) with an available add-on *Air Filter kit* to minimize dust infiltration.

All models come in a lightweight package (3.5kg: Half-Rack / 5.0kg: Full-Rack) for easy movement and installation in both benchtop and rack-mount configurations. Two, three and four half-rack units can be zero-stacked using the **GH/MO-2U, -3U** or **-4U** Stacking Accessory kits and one or two half-rack units can be installed in a standard 1U 19" rack-mount configuration using the **GH/RM** Rack-Mount Accessory kit.

Interfacing is common across the entire power platform (1kW to 15kW) by 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 the **IEEE (GPIB)**, **Modbus-TCP** and **EtherCAT**. 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™ Half-Rack** and **Full-Rack** 1kW Programmable DC Power Supply platforms have Safety certifications to IEC/EN/UL/cUL 61010-1, is **CE** marked in accordance with the Low Voltage, EMC (IEC/EN 61204-3; industrial environment) and RoHS Directives and carries a five (5) year warranty.

For more information about the TDK-Lambda 1U Half-Rack/Full-Rack **GENESYS™** 1kW 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™ 750W DC Programmable 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/>.

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### 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/](http://www.jp.lambda.tdk.com/en/)

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