

Power Supply Products

Advanced Half-Rack 1U AC/DC Programmable Power Supply Series Provides Industry Leading 1.5kW Output Power Operating from Wide-Range Single Phase AC Input

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TDK Corporation announces the introduction of the TDK-Lambda [1U Half-Rack GENESYS™ 1.5kW AC/DC Programmable Power Supply Series](#). This latest introduction has **industry leading power density** (1.5kW in a Half-Rack width) in a lightweight package (less than 3.5kg / 7.7lbs) all while keeping the same advanced features/functions and front/rear panel interfaces as the other **GENESYS™** Full-Rack programmable power platforms (**1.7kW, 2.7kW, 3.4kW, 5kW, 10kW** and **15kW**).

Ten different models are available that range from **0-10V (0-150A)** to **0-600V (0-2.6A)** and can operate in *Constant-Current* (CC), *Constant-Voltage* (CV) or the newly offered *Constant-Power* (CP) limit mode and offer advanced performance and functionality well-suited for both bench-top and rack-mount product design and development in laboratory/R&D environments in market segments such as Aerospace, Automotive, Semiconductor, Medical, Industrial and Renewable/Alternative Energy.

All models within the 1U Half-Rack platform operate from a wide-range single-phase AC Input (85VAC to 265VAC), have built-in active Power Factor Correction (0.99 typical) with conversion efficiencies up to 90% and offer cooling fan speed control (for reduced audible noise and extended life

Advanced features offered include *Internal Resistance simulation*, *Slew-Rate control* of Output voltage/current and *Arbitrary Waveform Generation with Auto-Trigger* as well as Enable/Disable with Polarity selection, Internal Pre-Load ON/OFF control, Trigger-IN/Trigger-OUT capability and built-in Control pins (for external load disconnect or polarity reversal).

Built-in standard control methods include the **Local-Mode** menu-driven **front panel** display, the **Remote Isolated Analog** Interface or any of the four rear panel **Remote Digital** Interfaces (**LAN, USB, RS-232** and **RS-485**). Optional rear panel **Remote Digital** Interfaces included are **IEEE** and **Modbus-TCP**. Software instrument drivers are 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).

With each unit only having a Half-Rack width, a 17" depth and 3.5kg weight, two units can easily be moved and installed side-by-side in a standard 19" rack using the **GH/RM** Rack-Mount accessory kit. A *Blank Front Panel* option is available where front panel local mode user access is not required.

Carrying a five (5) year warranty, the **GENESYS™ Half-Rack 1.5kW** Power Supply Series has Safety certifications to IEC/EN/UL/cUL 60950-1 and is **CE** marked in accordance with the Low Voltage, EMC (IEC/EN61204-3; industrial environment) and RoHS Directives.

For more information about the TDK-Lambda 1U Full-Rack **GENESYS™** 1.7kW 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/genplush1u1_5.htm and fill out an online Information Request at http://www.us.tdk-lambda.com/hp/form/request_genplush1-5.htm.

Also available is the **low-cost general purpose** 1U Full-Rack **Genesys™ 1.5kW 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 <https://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 comprehensive portfolio features passive components such as ceramic, aluminium 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 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 2019, TDK posted total sales of USD 12.5 billion and employed about 105,000 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: www.jp.lambda.tdk.com/en/

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