

NEW Genesys™ Programmable AC/DC Power 2,400 Watts in 1U Highest Density now with Auxiliary Outputs

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TDK-Lambda Americas, a group company of TDK Corporation, has added a new 1U 2.4kW version to its successful Genesys™ range of rack-mountable, programmable power supplies that cover 1U, 2U and 3U formats from 750W to 15kW. Offering the highest power density available in 1U, the Genesys™ family continues to set standards for flexible, reliable, AC/DC power systems for OEM, industrial, ATE, test and laboratory applications.

The GEN 2.4kW models include twelve output voltages from 0-8VDC through 0-600VDC. Maximum output current for the lowest voltage range is 300A. The wide range input is continuously variable from 170-265V AC, in either single phase or three phase. All units feature active power factor correction.

Of particular note, new in this model series are Auxiliary Outputs of 15VDC and 5VDC at 0.2A for simplified system control configuration.

TDK-Lambda's GEN 2.4kW 1U achieves an exceptionally high efficiency for programmable power, which not only minimizes the generation of unwanted heat but also reduces consumed power. The GEN 60V through 600V models achieve 88% efficiency at 200V AC. Similarly for the high current models below 60V, efficiency is rated at 84%. In addition, a new shunt structure incorporated into the design achieves improved temperature coefficient (100ppm/°C) of output current. Fan speed control (ambient temperature and load dependant) helps to extend fan life and considerably reduce the fan noise at room temperature.

Noteworthy safety features, common to the Genesys™ range, include Safe Re-Start / Auto Re-Start and Last Setting Memory. With Safe Re-Start, the power supply returns to previous settings after power off but with output disabled. Auto Re-Start enables the output after a power cut for unattended applications. Last Setting Memory retains settings of output voltage and current, remote or local mode, OVP and UVL, Foldback Current, Baud Rate and Start-Up Mode, without battery. Front Panel controls include Output On/Off and Local/Remote selection. The Front Panel may also be locked locally or by software command.

Common to the whole Genesys™ family is the built-in RS232/485 interface. Using this digital interface up to 31 power supplies may be controlled in daisy chain over the RS485 line. Analogue remote programming is user selectable 0-5V or 0-10V via DIP switches on the rear panel.

Digital and isolated analogue interfaces are optional. The optional IEEE digital interface has a wide selection of LabVIEW™ drivers is available. Isolated analog programming options include either 0-5V/0-10V, or 4-20mA control. An optional LAN (LXI compliant) card is also available.

Higher power systems can be configured with up to four GEN 2.4kW modules. Paralleling units for higher power is simplified with the master unit able to report total system output current. As a result, the four units can appear as a single 9.6kW power supply, increasing flexibility for system designers. The overall weight of each GEN 2.4kW module is under 10kg, and rack space is kept to the minimum since all Genesys™ supplies are true "zero stack" with no space required between units.

CE marked in accordance with the Low Voltage Directive, Genesys™ conducted and radiated EMI conforms to EN55022-A, FCC-A. Safety approvals include UL60950-1 and EN60950-1. All models carry a five-year warranty. Unit is RoHS Compliant.

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