

Power Supply Product

Genesys™ 3U 15kW Programmable Power Supply Series Adds High Current 30V, 40V and 50V models

Neptune, NJ – August 2015

TDK Corporation announces the addition of high current 30V, 40V and 50V models (for 400VAC and 480VAC Input) to its successful Genesys™ 3U 15kW Programmable Power Supply Series.

Carrying a five (5) year warranty, the Genesys™ 3U 15kW Product Platform now includes a total of fourteen Output voltages ranging from 30V to 600V and Output currents ranging from 25A (600V model) to 500A (30V model) while continuing to set standards for flexible, reliable, AC/DC power conversion systems in the OEM, Industrial, Military & Aerospace and ATE markets including: Semiconductor and Automotive Test, Component Test/Burn-in and Magnet supplies.

In addition to high power density, popular worldwide three phase inputs are available (400VAC, 480VAC) which feature passive Power Factor Correction to assure more reliable operation in difficult AC Input environments along with cooling fan speed control to ensure extended fan life.

As with all of the Genesys™ programmable power supplies, several safety and advanced system configuration features are included.

Safety features included are Safe/Auto Re-Start, Last Setting Memory and Built-in protective functions. With Safe Start configured, the power supply returns to its last operation settings after a power interruption but with the Output disabled, while with Auto Re-Start, 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, OVP/UVL level, Foldback and Start-Up mode at each AC Input turn-off sequence. Built-in protective functions include Over-Voltage protection (OVP), Under-Voltage limit (UVL), FOLDback protection (FOLD) and Over-Temperature protection (OTP).

Higher power systems can be configured using the Master/Slave “Advanced” Parallel operating mode. This mode configures the Master unit to be the single –point for programming, measurement and status of the total current of the paralleled system. Thus, four units can operate as a single 60kW power supply, increasing the flexibility for system designers.

Common to the entire Genesys™ family is the embedded 16-bit RS-232/RS-485 Multi-Drop Digital communication interface. Using this Digital interface, up to 31 power supplies may be controlled in an addressed RS-485 daisy-chain configuration.

Other optional Digital and Analog interfaces include the LXI Class C compliant LAN and the IEEE (488.2 and SCPI-compliant) Multi-Drop Digital communication interfaces (which include a selection of instrument software drivers such as NI LabVIEW and NI LabWindows™) as well as a 5V/10V and 4-20mA Isolated Analog Program/Monitor interface.

CE marked in accordance with the Low Voltage Directive, the Genesys™ 3U 15kW Power Supply Series conforms to conducted and radiated EMI in accordance with EN55011A and FCC Part 15J-A. Safety agency approvals include UL60950-1 and EN60950-1.

For more information about the Genesys™ 3U AC/DC rack-mount programmable Power Supply Series, call the TDK-Lambda Americas High Power Division directly at +1-732-922-9300, contact your local Sales representative or download the product datasheet from http://www.us.tdk-lambda.com/hp/product_html/genesys3u10_15.htm.

A wide range of other TDK-Lambda High Power Division Low Voltage and High Voltage power supplies can be viewed from the website: <http://us.tdk-lambda.com/hp/>

Major Applications

OEM, Industrial, Military & Aerospace and ATE markets including: Semiconductor and Automotive Test, Component Test/Burn-in and Magnet supplies.

Main Features and Benefits

- Built-in RS-232/RS-485 Multi-Drop Digital and Remote Analog programming interfaces.
- Optional LAN, GPIB and Isolated-Analog programming interfaces.
- Safe/Auto Re-Start, Last Setting Memory and Built-In Protective functions.
- Internal fan speed control.

Major Specifications

Parameter		Genesys™ High Current Models		
Input voltage range	VAC	Three-Phase 400VAC (342VAC – 440VAC) Three-Phase 480VAC (432VAC – 528VAC)		
Output voltage range	VDC	0 - 30V	0 - 40V	0 - 50V
Output current range	ADC	0 – 500A	0 – 375A	0 – 300A
Output power	kW	15kW	15kW	15kW
Efficiency	%	88%		
Mounting type	-	Rack-mount w/ provision for Chassis slides		
Size (H x W x L)	mm	5.25"/133mm:(H-3U) x 19.00"/483mm-(W) x 22.85"/581mm:(L)		
Warranty	-	5 years		

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 includes electronic components, modules and systems* which are marketed under the product brands TDK and EPCOS, power supplies, magnetic application products as well as energy devices, flash memory application devices, and others. TDK focuses on demanding markets in the areas of information and communication technology and consumer, automotive and industrial 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 2014, TDK posted total sales of USD 9.6 billion and employed about 83,000 people worldwide.

* The product portfolio includes ceramic, aluminum electrolytic and film capacitors, ferrites, inductors, high-frequency components such as surface acoustic wave (SAW) filter products and modules, piezo and protection components, and sensors.

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/>

Contacts for Regional Media

Region	Contact	Phone	Mail
Americas	Tom Goodman TDK-Lambda Americas	+1 732 922 9300	tom.goodman@us.tdk-lambda.com