Press Information

Power Supplies

TDK expands HWS3000 series with wide range three-phase input model

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TDK Corporation (TSE:6762) announces the expansion of the 3000 W TDK-Lambda HWS3000 programmable AC-DC power supply series with the introduction of the HWS3000GT4 model. Now available with a new wide-range 340 – 528 Vac three-phase input option, this addition offers engineers greater installation flexibility, improved compatibility with global industrial power systems, and enhanced resilience in electrically demanding environments. The nominal output voltages and output currents remain fully programmable (CV/CC) from zero up to their maximum ratings, enabling precise control and fast system integration across a wide range of industrial applications.

Output programming can be achieved using a serial RS485 interface (MODBus protocol) or analog 1 - 5 V or 4 - 20 mA signals, enabling straightforward connection to PLCs, automation systems, and test equipment. These very compact products also feature a variable speed fan with 45 dB audible noise at <70 % load, and a 25 °C typical ambient temperature. The HWS3000 series can be used in a wide range of applications, including test and measurement, semiconductor fabrication, RF amplifiers, laser machining, printing, and industrial equipment.

The HWS3000GT4 model provides 3000 W from a three-phase input voltage of 340 – 528 Vac. Six nominal output voltages, 24 V, 48 V, 60 V, 80 V, 130 V, and 250 V, can be programmed to cover voltages from 0 – 300 V. Available in a compact 270 x 150 x 61 mm case size, up to three units can be connected in series or up to ten in parallel, offering scalable solutions for higher voltage or current requirements. The digitally programmable voltage slew rate, along with monitoring functions such as cumulative operating time, fault logs, and product identification, enhances system control and diagnostics. Notably, digital programming can be performed without powering the unit, improving safety and setup efficiency.

A 5 V, 2 A standby voltage, remote on/off, remote sense, fan fail, and power good signals are fitted as standard. With efficiencies of up to 93 %, internal heating is minimized, allowing reliable operation in the compact package size. The HWS3000 models can operate at ambient temperatures ranging from -20 °C (-40 °C start-up) to +70 °C, derating linearly from 50 °C to 50 % load at +70 °C. A seven-year* warranty and conservatively-rated electrolytic capacitor temperatures further support long-term reliability. The output terminals can be configured for either horizontal or vertical connections, offering additional installation flexibility.

Rugged versions of the HWS3000 are available with the /HD option, which features dual-sided board coating and is designed to withstand MIL-STD-810G shock and vibration requirements for harsh environments. Additionally, the /RF option allows the airflow direction to be reversed to suit the needs of the end system.

The series' input to output isolation is 3000 Vac, input to ground 2000 Vac, and output to ground 1500 Vac. The leakage current measures <0.85 mA, and the maximum operating, transportation and storage altitude is 5000 m (2000 m for the IEC/EN62477-1 standard).

Safety certifications include IEC/EN/UL 62368-1 and IEC/EN62477-1 (OVC III) with CE/UKCA marking for the Low Voltage, EMC, and RoHS Directives. The units meet EN55032A, EN55011-A and FCC-A conducted and radiated emissions. The series also complies with the EN 61000-3-2 harmonics and IEC 61000-4 immunity standards.

Main applications

- Test and measurement, semiconductor fabrication, RF amplifiers, laser machining, printing, and industrial equipment

Main features and benefits

- Digital or analog programming (CV/CC)
- Series and/or parallel operation
- Compact 270 x 150 x 61mm footprint
- Single and three-phase input models

Type		HWS3000G	HWS3000GT	HWS3000GT4
Nominal input voltage	Vac	Single phase 85 - 265	Three-phase 170 - 265	Three-phase 340 – 528
Output voltages	Vdc	24 V, 48 V, 60 V and 130 V		24 V, 48 V, 60 V, 80 V, 130 V and 250 V
Maximum output power	W	85 - 132: 1500, 170 - 265: 3000	3000	3000
Efficiency	%	Up to 93		
Size (W x H x D)	mm	270 x 150 x 61		
Safety certifications		IEC/EN/UL/CSA62368-1, IEC/EN62477-1 (OVC III)		
Programming		RS485 interface (MODBus) or analog 1 - 5 V or 4 - 20 mA signals		
Other features and options		5 V, 2 A standby voltage, remote on/off and power good signaling, /HD option to meet MIL-STD-810G shock and vibration, coated boards /RF for reverse airflow		
Warranty		Seven years*		

*Seven-year warranty applicable for the Americas and EMEA regions. Other regions: 5 years.

About TDK Corporation

TDK Corporation (TSE:6762) is a global technology company and innovation leader in the electronics industry, based in Tokyo, Japan. With the tagline “In Everything, Better” TDK aims to realize a better future across all aspects of life, industry, and society. For over 90 years, TDK has shaped the world from within; from the pioneering ferrite cores to cassette tapes that defined an era, to powering the digital age with advanced components, sensors, and batteries, leading the way towards a more sustainable future. United by TDK Venture Spirit, a start-up mentality built on visions, courage and mutual trust, TDK’s passionate team members around the globe pursue better—for ourselves, customers, partners, and the world. Today, the state-of-the-art technologies of TDK are in everything, from industrial applications, energy systems, electric vehicles, to smartphones and gaming, at the core of modern life. TDK’s comprehensive, innovative-driven portfolio includes cutting-edge passive components, sensors and sensor systems, power supplies, lithium-ion and solid-state batteries, magnetic heads, AI and enterprise software solutions, and more—featuring numerous market-leading products. These are marketed under the product brands TDK, EPCOS, InvenSense, Micronas, Tronics, TDK-Lambda, TDK SensEI, and ATL. Positioning the AI ecosystem as a key strategic area, TDK leverages its global network across the automotive, information and communication technology, and industrial equipment sectors to expand its business in a wide range of fields. In fiscal 2025, TDK posted total sales of USD 14.4 billion and employed about 105,000 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/

Further information on the products can be found under https://product.tdk.com/en/power/hws-g

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Contacts for regional media

Region	Contact		Phone	Mail
Americas	Tom TILLMAN	TDK-Lambda Americas	+1 619-575-4400	tom.tillman@tdk.com
EMEA	Sylvia KIEFER Danielle SMITH	TDK-Lambda Europe Pretzl Ltd.	+49 7841 666 281 +44 (0)7581 024101	tle.powersolutions@tdk.com danielle.smith@pretzl.com
Other Asia	BK NEO	TDK-Lambda Singapore Pte Ltd.	+65 6251 7211	tls.marketing@tdk.com
Greater China	Helen VAN	TDK-Lambda (China) Electronics Co., Ltd.	+86 21 64850777 *209	helen.van@tdk.com
Japan	Mr. D. ITO	TDK Corporation Tokyo, Japan	+813 6778 1055	TDK.PR@tdk.com