

Power Supplies

TDK expands the GENESYS™ AC and GENESYS™ AC PRO programmable power supply series with 3U high 6kVA and 9kVA models

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TDK Corporation (TSE 6762) announces the expansion of the TDK-Lambda GENESYS™ AC (GAC) and GENESYS™ AC PRO (GAC-PRO) series with 6kVA and 9kVA rated programmable AC power sources. These complement the recently introduced 2kVA and 3kVA models, enhancing test and measurement capabilities for the current GENESYS™ series of 750W to 90kW programmable DC power supplies. With a 3U high chassis, the GAC and GAC-PRO provide extremely high power density for a fully featured programmable AC power source.

The GENESYS™ AC PRO models (GAC-PRO) allow the provision of operating in AC, DC, or combined AC+DC operation. In DC mode (+/-500V), the power supplies can be operated at full power and current, with advanced functions such as waveform generation and harmonics analysis as standard. The GENESYS™ AC PRO also includes real-time analogue control functionality necessary for more complex test scenarios, including hardware-in-the-loop (HIL). Other applications for the GENESYS™ AC PRO include automated test equipment, avionics airborne equipment, aircraft electrical power, defence (RTCA, Boeing, Airbus Standards), automotive, e-mobility, and power source testing.

The GENESYS™ series has an advanced parallel system that provides operational characteristics comparable to those of a single power supply. The 2kVA, 3kVA, 6kVA, and 9kVA models may be user-combined to increase the power or to deliver Three-phase or multi-phase outputs.

As standard, LAN, USB, RS232, RS485, and Analog Programming / Monitoring are provided. The included remote GUI software allows the user full control and sequence programming. Each GAC and GAC-PRO model comes equipped with an integrated WEB interface, USB drivers, and SCPI command support. The GENESYS™ AC PRO models include optional pre-programmed test standards for common IEC, aerospace, and marine tests, accessed through the GUI. These standards will dramatically reduce test time, consistency, and labour cost compared to traditional manual setups.

The GAC06 and GAC09 models are 423mm wide, 649.7 mm deep, and 132.5mm high (3U high), weighing less than 25kg. The five-year warranty series is safety-certified to IEC/EN/UL 61010-1 with CE and UKCA marking to the Low Voltage, EMC, and RoHS Directives. The models also comply with IEC/EN 61204-3 for conducted and radiated EMI (Class A) and EMC immunity.

Further information on the entire GENESYS AC series can be found at <https://product.tdk.com/en/power/gac>

Main applications

- Automated test equipment, avionics (airborne equipment, aircraft electrical power), defence (RTCA, Boeing, Airbus Standards), automotive on-board chargers, e-mobility, and power source testing
- End-of-line testing of consumer and commercial products to global power standards
- Pre-compliance testing for IEC61000-4-13

Main features and benefits

- 3U high, providing very high power density for a fully featured AC source
- Intuitive full colour touch panel interface
- LAN, USB, RS232, RS485, and Isolated Analogue Interfaces as standard
- Master/Slave parallel configuration for increased power
- Units can be combined for multi-phase configuration
- Remote GUI software included, USB and Labview drivers, SCPI programmability
- Avionics and IEC test libraries available
- Five-year warranty

Key data

Model		GAC06	GAC09
Output power	kVA	6	9
Output voltage	V	0 - 350Vac, ± 500 Vdc (GAC-PRO)	
Output current (max)	A (rms)	60	90
Output frequency	Hz	16 – 1200 (16 – 5000 available on GAC-PRO)	
Input voltage range	Vac	Three Phase 100-240 or 200-480	
Efficiency	%	Up to 82.5	
Safety certifications	-	IEC/EN/CSA/UL 61010-1	
Size (W x D x H)	mm	423 x 649.7x 132.5 (19" 3U)	
Weight	Kg	< 25kg	
Other standard features	-	LAN, USB, RS232, RS485 and Isolated Analogue	
Warranty	-	Five years	

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. 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, software 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 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/

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