



Press Information

Power Supplies

TDK launches 15 and 30 W all-in-one DC-DC converters requiring no external components

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TDK Corporation (TSE:6762) launches the TDK-Lambda CCGS series of 15 and 30 W isolated DC-DC converters featuring all-in-one packages that require no external components, helping customers reduce design complexity and the overall system footprint. The CCGS series models are available in a variety of connector and enclosure package types, including DIN-rail mounting, and feature TDK-Lambda's widely used board-mount CCG models, which have demonstrated strong field reliability – giving confidence in long-term performance.

With the release of the CCGS series, TDK-Lambda offers a simplified solution that reduces both development time and manufacturing costs for OEMs, while providing flexibility through a broad selection of modules. Both the 15 and 30 W models offer 3.3, 5, 12 and 15 V single outputs, with additional +/- 12 V and 15 V configurations also available. The CCGS15 model can provide up to 15 W of output power with an input voltage range of 9 to 36 V (safety certified from 18 – 36 V) or 18 – 76 V. The 30 W models are fully certified from 9 to 36 V or 18 – 76 V input.

The chassis mount model measures 52 x 93 x 23.5 mm (W x D x H), with screw terminal connections featuring captive screws to prevent dropped hardware, improving installation efficiency. The /DIN DIN-rail clip-on mount model measures 52 x 93 x 31.9 mm and the /B option provides end-users with JST push-on connectors for input and output to help prevent wiring errors; both can be combined to simplify installation.

As standard, the single-output CCGS has an adjustable output voltage potentiometer, enabling voltage ranges of 2.97 - 3.63 V (3.3 V nominal), 4.50 - 5.50 V (5 V nominal), 10.80 - 13.20 V (12 V nominal), and 13.50 - 16.50 V (15 V nominal). A green LED indicates output power status, allowing quick visual confirmation during system checks. The remote on/off functionality provides an output inhibit feature, enabling system-level power sequencing and allowing engineers to safely isolate subsystems during maintenance, reducing downtime. The efficiency of the converter is typically between 84 – 87 %, model-dependent. The operating temperature of the CCGS series is from -20 to 70 °C with natural convection cooling.

The CCGS series is certified to IEC/EN/UL/CSA 62368-1 for altitudes up to 5000 m. The withstand voltage is input to chassis 1500 Vdc, input to output 1500 Vdc, and output to chassis 1000 Vdc.

Main applications

- Semiconductor manufacturing equipment, factory automation/robotics, railway, test and measurement, and communications.

Main features and benefits

- Very compact sizes
- DIN-rail or chassis mount
- Wide range of output voltages
- Output voltage adjustment

Type		CCGS
Nominal input voltage	V _{dc}	24 V or 48 V
Output voltages	V _{dc}	5, 12, and 15, +/- 12 V and +/-15 V
Output power	W	15 or 30
Efficiency	%	Up to 87
Size (W x D x H)	mm	Standard option: 52 x 93 x 23.5 /B option: 52 x 93 x 23.5 /DIN option: 52 x 93 x 31.9 /BDIN option: 52 x 93 x 31.9
Safety certifications		IEC/EN/UL/CSA 62368-1

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 SenseEI, 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 [Search Result | TDK Product Center](#)

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