Press Information

Power Supplies
TDK unveils compact 60 W isolated DC-DC converter for space-constrained applications

November 3, 2026

TDK Corporation (TSE:6762) has introduced the TDK-Lambda CCG60, a 60 W isolated DC-DC converter in a compact 1 × 1-inch footprint. Part of the existing CCG series, the CCG60 provides up to twice the power of the CCG30 in the same board footprint, helping equipment designers add power without increasing the converter mounting area.

Modern electronic systems contain multiple discrete loads, while designers continue to face exacting limits on board space, efficiency, and thermal performance. The CCG60 addresses these requirements by delivering up to 60 W from a 25.4 × 25.4 mm board footprint with an overall height of 13.0 mm, and a weight of 30 g. TDK-Lambda comparisons show that the converter requires less than half the mounting area of selected competing products.

Two 4:1 input range options support commonly used system voltages. The CCG60-24 models operate from 9 to 36 Vdc for 12 V and 24 V systems, while CCG60-48 models accept 18 to 76 Vdc. Both input ranges are available with nominal outputs of 3.3 V, 5 V, 12 V, 15 V, or 24 V.

Efficiency reaches up to 93%, reducing power losses and easing thermal management. The CCG60 operates from -40 °C to +85 °C and delivers up to 60 W at an ambient temperature of 60 °C, with 30 W available at 85 °C under the stated operating conditions. Convection and forced-air cooling are supported.

The CCG60 includes remote on/off control, output voltage adjustment, and overcurrent protection. Input-to-output withstand voltage is 1500 Vdc for one minute, with 1000 Vdc withstand voltage from input or output to the case, providing functional insulation.

Six-sided metal shielding reduces radiated and conducted EMI, helping simplify system EMC compliance and reducing the time and cost associated with passing regulatory testing. The CCG60 is backed by a five-year warranty, giving customers confidence in long-term reliability and product performance.

Certification to IEC, EN, UL, and CSA 62368-1 supports equipment compliance and covers operation at altitudes up to 5000 m. The converter is intended for industrial, test and measurement, communications, and broadcast equipment.

Main applications

- Industrial, test and measurement, communications, and broadcast equipment

Main features and benefits

- 60 W output in a compact 1 × 1 inch footprint, providing up to twice the power of the CCG30 in the same board mounting area.
- Two 4:1 input ranges (9–36 Vdc and 18–76 Vdc) with 3.3 V, 5 V, 12 V, 15 V, and 24 V output options, supporting a wide range of system voltages.
- Up to 93% efficiency and operation from -40 °C to +85 °C, helping reduce power losses and support thermal performance in space-constrained designs.
- Six-sided metal shielding, helping reduce radiated and conducted EMI.
- Integrated control and protection functions, including remote on/off, output voltage adjustment, and overcurrent protection.
- IEC, EN, UL, and CSA 62368-1 certification, with operation supported at altitudes up to 5000 m.

Type		CCG60
Isolated DC-DC converter		
Maximum output power	W	60; 39.6 (for 3.3 V models)
Input-voltage ranges	Vdc	9–36 or 18–76
Nominal output voltages	V	3.3, 5, 12, 15 or 24
Max. Efficiency	%	93
Operating temperature	° C	-40 to +85
Weight	g	30 (typ.)
Size (L x W x H)	mm	25.4 × 25.4 × 13.0
Safety certifications		IEC, EN, UL, and 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, 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 2026, TDK posted total sales of USD 16.6 billion and employed about 107,000 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/system/files/dam/doc/product/power/switching-power/dc-dc-converter/catalog/ccg60_e.pdf

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