

## Aluminum electrolytic capacitors

# TDK offers a new screw terminal series with high current capability and long service life

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TDK Corporation (TSE:6762) presents the EPCOS aluminum electrolytic capacitors B43706\* and B43726\* series with screw terminals. The new components are designed for rated voltages between 400 V DC and 500 V DC and cover a capacitance range of 820  $\mu$ F to 15,000  $\mu$ F.

A special feature is the high-rated current capability of up to 56.1 A AC (100 Hz, 85 °C). In case of standard operating conditions (for example, at 300 Hz, 60 °C, 2 m/s), currents of up to 100 A can even be reached. These values mean an approx. 25 percent increase in the current capability in the case of rated conditions in contrast to previous series.

The robust capacitors are designed for a service life of 12,000 hours at 85 °C. A precise service life calculation can be performed with the online AlCap Tool ([www.tdk-electronics.tdk.com/en/alcap\\_tool](http://www.tdk-electronics.tdk.com/en/alcap_tool)). Similar to other EPCOS screw terminal series, a range of options such as heat sink mounting or special terminals are available as reverse polarity protection.

The new capacitors are particularly well suited to frequency converters and industrial power supplies as well as UPS systems. Furthermore, the capacitors can be effectively used for converters in the renewable energies sector, such as wind power and photovoltaic systems.

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### Main fields of application

- Industrial frequency converters and power supplies as well as UPS systems
- Wind power and photovoltaic systems

### Main features and benefits

- High-rated current capability of 56.1 A AC (100 Hz, 85 °C)
- Current capacity increased by up to 25 percent at rated conditions compared to previous series
- Long service life of 12,000 hours at 85 °C

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### 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 and deliberately “Attracting Tomorrow.” 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 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 2021, TDK posted total sales of USD 13.3 billion and employed about 129,000 people worldwide.

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