

TDK offers DC link capacitors for +105 °C



TDK Corporation (TSE:6762) presents a new series of EPCOS power capacitors for DC link applications designed for an operating temperature of up to +105 °C. The components with the ordering code B25695E can operate at rated DC voltages from 700 V to 1300 V (voltage derating necessary from +85 °C). The ESR ranges from 1.0 mΩ to 2.7 mΩ, resulting in a current capability of up to 110 A at +70 °C, depending on the model (current derating necessary at higher temperatures). However, the film capacitors can repetitively withstand current peaks of up to 15.8 kA. At the rated voltage and +75 °C, their service life is 120,000 h – up to 35% more than the standard version

The cylindrical cases of the RoHS-compatible capacitors with diameters of 85 mm or 116 mm are aluminum and have a synthetic resin lid. The metalized polypropylene film is encapsulated with a dry epoxy resin. M6 screw terminals ensure a secure electrical connection and an M12 threaded bolt on the bottom

side provides a secure mechanical connection.

Typical applications are DC link circuits in converters in renewable energies (photovoltaics, wind power), in rolling stock (train, subway, streetcar), and industrial drives.

Features & Applications

Main applications

- DC links for renewable energies (photovoltaics, wind power)
- DC links in rolling stock (trains, subways, streetcars)
- DC links for industrial drives

Main features and benefits

- Operating temperature up to +105 °C
- Low dissipation factor
- Overvoltage resistant (130% of the rated voltage every day for 1 minute)

Get detailed information



Product Catalog

Power Capacitors (MKP) for DC Applications

In the case of Power Capacitors for DC Applications TDK offers different technology products depending on the application such as for standard ones, e-mobility (low LSI/ULSI HF), harsh environment (tightly sealed) or for high partial discharge applications in power converters (resin top).

[More >](#)