



CeraCharge

World's First Rechargeable Solid-State SMD Battery



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From simple gadgets to complex devices for consumer and industrial IoT – they all require compact, reliable and extremely safe power supplies. In order to meet all these demands, TDK has developed CeraCharge™, the world's first rechargeable solid-state SMD battery. This new technology offers a high energy density and smallest volume combined with the safety and high volume manufacturing benefits of ceramic multilayer components.

Main features and benefits

- Compact EIA 1812 case size
- Wide temperature range from -20 to +80 °C
- More than 1000 recharging cycles
- Easy placement and processing using reflow soldering techniques
- Multilayer technology (like MLCC)
- Solid ceramic electrolyte rules out the risk of fire, explosion or leakage of liquid electrolyte

Main applications

- IoT devices, e.g. smart meters, PLCs, smart home sensors
- Real-time clocks (RTC)
- Bluetooth beacons (BLE)
- Wearable devices
- Systems for energy harvesting

Ordering code Development Kit: **B73180A0101M199**

More about the new Development Kit

Please contact our Sales department at www.tdk-electronics.tdk.com/inquiry, visit us at www.tdk-electronics.tdk.com/en/ceracharge, or scan the QR code on the cover page.

Important information: Some parts of this publication contain statements about the suitability of our products for certain areas of application. These statements are based on our knowledge of typical requirements that are often placed on our products. We expressly point out that these statements cannot be regarded as binding statements about the suitability of our products for a particular customer application. It is incumbent on the customer to check and decide whether a product is suitable for use in a particular application. This publication is only a brief product survey which may be changed from time to time. Our products are described in detail in our data sheets. The *Important notes* (www.tdk-electronics.tdk.com/ImportantNotes) and the product-specific Cautions and warnings must be observed. All relevant information is available through our sales offices.

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