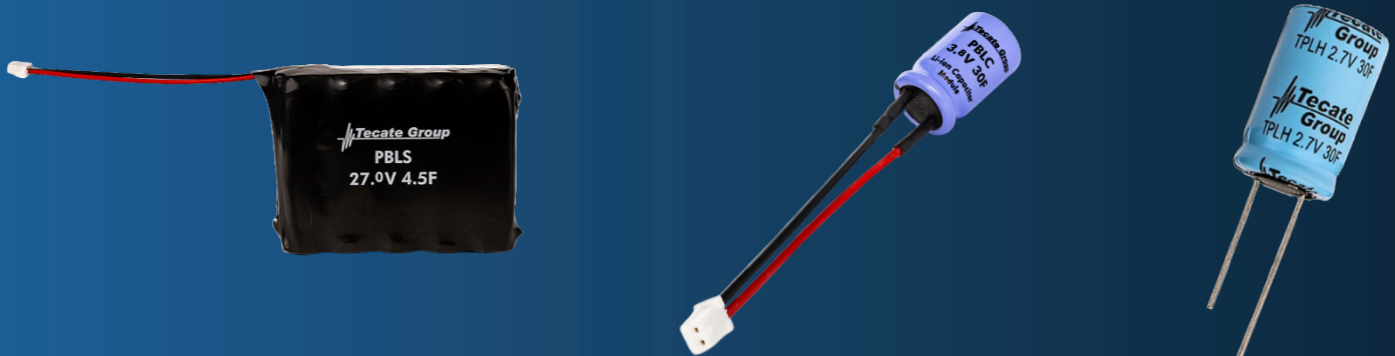


## Computing Solutions

Tecate Group is an industry leader in providing ultracapacitor and lithium-ion capacitor solutions for use in high-performance computing applications. For more than 15 years, we have supplied the largest names in the industry with customized module solutions in addition to standard off-the-shelf products, making Tecate Group one of the computing industry's most experienced suppliers of power solutions.



## **Power-Loss Protection**

Ultracapacitors provide rapid discharge capabilities that ensure data is safely written to nonvolatile storage during unexpected power losses in SSD enterprise servers and data centers. Unlike traditional batteries, they offer longer lifespans and require minimal maintenance, improving overall system reliability. Their fast response time and high power density make them ideal for bridging short-term outages without data corruption. Additionally, ultracapacitors operate effectively across a wide temperature range, making them suitable for demanding data center environments.

## **Peak-Load Shaving**

Peak-load shaving using ultracapacitors helps computer servers manage short bursts of high power demand without overloading the main power supply. By supplying instant energy during peak loads, ultracapacitors reduce strain on infrastructure and lower the risk of power interruptions. This improves energy efficiency and reduces operational costs by avoiding the need for oversized power systems. Additionally, it enhances system stability and prolongs the life of critical power components.

## **Mobile Computing**

Ultracapacitors provide reliable backup power in mobile computing applications by delivering instant energy during sudden power interruptions or battery transitions. Their rapid charge and discharge capabilities ensure minimal downtime and protect against data loss. Unlike traditional batteries, ultracapacitors have a longer cycle life and operate efficiently in a wide range of environmental conditions. This makes them ideal for enhancing the durability and responsiveness of mobile devices in critical or remote operations.

## **Wireless Devices**

Lithium-ion capacitors are an efficient power solution for wireless computing devices like mice, keyboards, and headsets. They combine the high energy density of lithium-ion batteries with the fast charge and discharge capabilities of capacitors, enabling quicker charging and longer operational life. Unlike traditional batteries, they offer significantly more charge cycles, reducing the need for frequent replacements and lowering long-term costs and maintenance. Their low self-discharge rate ensures devices stay ready for use even after extended periods of inactivity. Additionally, lithium-ion capacitors are more environmentally friendly, with fewer disposal concerns compared to disposable batteries.

