

Why are battery protection boards important?

They help maintain the stability and reliability of the robot's power source. Drones and UAVs: Battery protection boards are essential in unmanned aerial vehicles (UAVs) and drones to monitor battery voltages, prevent over-discharging, and protect against excessive current draw during flight, ensuring flight safety and maximizing battery life.

How does a battery protection board work?

Voltage Monitoring: These boards continuously monitor battery voltage to prevent overcharging and over-discharging. The voltage thresholds for activating protection measures typically range from 4.2 volts per cell (for overcharging) to 2.5-3.0 volts per cell (for over-discharging).

How do I choose a BMS battery protection board?

Select a BMS battery protection board that can handle the maximum voltage and current levels expected during charging and discharging. Determine if you require a lithium battery BMS protection board with a communication interface (e.g., I2C, SMBus).

Why should you choose a lithium battery PCB Protection Board module?

Easy to Use: The lithium battery PCB protection board module offers hassle-free installation and usage, eliminating the need for complex wiring processes and enabling a simple and fast setup. **Rapid and Safe Charging:** Incorporates an intelligent lithium cell management IC that facilitates fast and secure charging of the battery.

How to choose the Right Battery Protection Board?

However, lithium batteries can not be used without a suitable battery management system (BMS), to choose the right battery protection board, we must remember the following points: their components, functionality, types, selection considerations, applications, installation guidelines, advancements, and future trends.

What is a lithium battery protection board?

Precise Wiring: The lithium battery protection board features a precise PCB design, ensuring accurate and clear wiring connections. **Versatile Application:** The integrated battery BMS PCB board is specifically designed for lithium battery testing, allowing for easy identification of correct cable connections.

2.2 Application Environment a) Operating temperature range: $-20^{\circ}\text{C} \sim 70^{\circ}\text{C}$; b) Power requirements: 10~100V. c) Power consumption: 25mA@40V in balanced state and 20mA ...

With a deep understanding of lithium battery safety technology, battery voltage, and battery cells, they can design BMS and battery protection board solutions that can monitor battery voltage and provide battery balance. Our products are in line with global certification standards, such as EN15194:2017, CE, FCC, CB,

