

# Polymer high voltage battery pack protection board

What is a battery protection board?

Hardware-type protection board: Use special lithium battery protection chip, when the battery voltage reaches the upper limit or lower limit, the control switch device MOS tube cut off the charging circuit or discharging circuit, to achieve the purpose of protecting the battery pack. Characteristics: 1.

Can you get a Protection Board with a custom battery pack?

You can also obtain custom-built protection boards with your custom battery packs. This arrangement is ideal since the battery manufacturer will have a greater understanding of the protection needs of the custom pack that they design for the customer. So, the protection board would cater to these design requirements.

Do lithium batteries need a Protection Board?

Protection boards for lithium batteries offer monitoring protection. Low-voltage lithium batteries require a protection board. When using high-voltage lithium batteries, a battery management system (BMS) is typically chosen since these systems contain more functions for monitoring the state of the battery pack.

How does a battery cell Protection Board work?

The battery cells can now receive a charge from a charger. Some devices may pull out too much of a charge in too fast of a short time span. To protect the battery cell and MOS tube, the protection board enacts discharge protection to the cell, turning off the pins and disconnecting the switch tubes.

Why do you need a battery protection IC?

That is why we design our battery protection ICs to detect a variety of fault conditions including overvoltage, undervoltage, discharge overcurrent and short circuit in single-cell and multi-cell batteries, so you can enhance the safety of your battery pack.

How to protect a lithium battery?

Use special lithium battery protection chip, when the battery voltage reaches the upper limit or lower limit, the control switch device MOS tube cut off the charging circuit or discharging circuit, to achieve the purpose of protecting the battery pack. Characteristics: 1. Only over-charge and over-discharge protection can be realized.

lithium-ion/polymer battery protection IC. Integrating power MOSFET and only two external components makes the protection board highly compact. JA5088SL has full protection including over charging voltage protection, over discharging protection, over current protection, short protection and over temperature protection. The very low standby

13S BMS Protection Board for Li-Ion Li-Polymer Battery, BMS No Soliding Battery Pack ...

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Battery Protection Module, Li-Ion Li-Polymer Battery Pack Protection Board PCB BMS Cell Protection Board for 13S 48V/54.6V Batteries. Features: The protection board is for 13 series Li-ion batteries, it can be used for ternary batteries, ...

We understand performance and safety are major care-about for battery packs with lithium ...

Discover the 2S 7.4V 10A BMS for 18650 Lithium Battery Protection, which is engineered to assure maximum safety and performance. This Battery Management System protects against overcharge, overdischarge, and short circuits, extending the life and durability of your lithium-ion battery pack. Upgrade your system immediately with this effective and trustworthy protection ...

Diodes" AP9101C is a protection solution developed for lithium-ion and lithium-polymer rechargeable batteries with a high-precision voltage detection circuit. Its functions protect batteries by detecting over-charge voltage, over-discharge voltage, over-charge current, over-discharge current, and other abnormalities, and turning off the ...

lithium-ion/polymer battery protection IC. Integrating power MOSFET and only two external ...

We understand performance and safety are major care-about for battery packs with lithium-based (li-ion and li-polymer) chemistries. That is why we design our battery protection ICs to detect a variety of fault conditions including overvoltage, undervoltage, discharge overcurrent and short circuit in single-cell and multi-cell batteries, so you ...

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