

2S 5A Li-Ion / LiPo 7.4V–8.4V 18650 BMS PCM Battery Protection Board

The **2S 5A Li-Ion / LiPo BMS PCM Battery Protection Board** is a high-quality module designed to **safely charge and protect 2-series (2S) lithium-ion or lithium-polymer battery packs**. With a **maximum 5A charge and discharge current**, this BMS ensures your 7.4V–8.4V battery packs operate **reliably, efficiently, and safely**.

Ideal for **DIY battery pack projects, electric bikes, portable electronics, and hobbyist devices**, this board prevents **overcharging, over-discharging, and short circuits**, extending battery lifespan and maintaining consistent performance. Its compact design makes integration into **18650 cell packs** simple and efficient.

Key Features

- **Battery Type:** 2S Li-Ion / LiPo (7.4V nominal, 8.4V max)
 - **Charge & Discharge Current:** 5A, suitable for moderate to high-drain devices
 - **Protection Functions:** Overcharge, over-discharge, short-circuit protection
 - **Battery Compatibility:** Ideal for 18650 Li-ion cells or equivalent LiPo cells
 - **Compact Design:** Lightweight, easy to integrate into battery packs and DIY projects
 - **Applications:** DIY electronics, portable devices, hobby projects, e-bikes, and power tools
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Benefits

- **Enhanced Battery Safety:** Protects lithium-ion and LiPo cells from overcharging, over-discharging, and short circuits, preventing potential hazards.
 - **High Current Capability:** Supports a continuous 5A charge/discharge, making it suitable for small motors, LED systems, and other moderate power applications.
 - **Durable and Compact:** Fits neatly into battery enclosures, ensuring a safe and space-efficient installation.
 - **Versatile Use:** Ideal for DIY battery packs, portable electronics, e-bikes, and hobbyist projects requiring 2S Li-ion or LiPo configurations.
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Applications

DIY Battery Packs

Perfect for building **2-cell lithium-ion or LiPo packs**, providing essential protection and stable performance.

Electric Bikes and Portable Vehicles

Ensures **safe operation of 7.4V–8.4V battery packs** in small electric bikes, scooters, and other portable motorized devices.

Portable Electronics

Supports handheld tools, LED systems, small robotics, and hobby electronics, delivering consistent and reliable energy.

Hobby and Maker Projects

Ideal for makers, engineers, and hobbyists who need **safe, high-performance battery management** for custom electronics projects.

Specifications

Specification	Details
Module Type	2S BMS PCM
Battery Configuration	2S Li-ion / LiPo (7.4V nominal, 8.4V max)
Charge Current	5A
Discharge Current	5A
Protection	Overcharge, over-discharge, short circuit
Compatible Cells	18650 Li-ion or equivalent LiPo cells
Dimensions	Compact, easy to integrate

Installation Tips

- Ensure correct polarity when connecting battery cells to avoid damage.
- Use proper soldering techniques to attach wires or tabs securely.

- Avoid exceeding the 5A rated current for safe and efficient operation.
- Ideal for DIY battery packs for portable electronics, e-bikes, or small motors.

Conclusion

The **2S 5A Li-Ion / LiPo 7.4V–8.4V 18650 BMS PCM Battery Protection Board** is an essential component for anyone building **safe, efficient, and reliable lithium battery packs**. With **overcharge, over-discharge, and short-circuit protection**, it safeguards your cells and extends battery life.

Perfect for **DIY electronics projects, portable devices, hobbyist builds, and e-bike battery packs**, this BMS combines **high-current performance, compact design, and reliable safety features**, ensuring that your lithium battery packs operate safely and efficiently at all times.

Invest in this **2S 5A Li-ion BMS** to ensure **maximum battery performance, safety, and longevity** for your 7.4V–8.4V 18650 packs.