

BMS 2S 13A 18650 7.4V–8.4V Lithium Battery Protection Board

The **BMS 2S 13A 18650 Lithium Battery Protection Board** is a **high-current, reliable solution** designed to **safely charge and protect 2S lithium-ion battery packs**. Supporting **13A charge and discharge current**, this board is perfect for **high-power DIY battery packs, electric vehicles, portable electronics, and hobby projects**. It effectively prevents **overcharge, over-discharge, and short circuits**, ensuring your 7.4V–8.4V lithium-ion cells operate safely and maintain **long-term performance**.

With its **compact, durable design**, the 2S 13A BMS is easy to integrate into **18650 battery packs**, providing robust protection without adding unnecessary bulk. This module is ideal for applications that require **high current output** and consistent, safe performance.

Key Features

- **Battery Type:** 2S Li-Ion / LiPo (7.4V nominal, 8.4V max)
 - **Charge & Discharge Current:** 13A, suitable for high-power devices
 - **Protection Functions:** Overcharge, over-discharge, short-circuit, and overcurrent protection
 - **Battery Compatibility:** Designed for 2S 18650 Li-ion battery packs
 - **Compact and Durable:** Lightweight design fits easily into small and medium-sized battery packs
 - **Applications:** DIY electronics, portable devices, high-drain tools, e-bikes, RC vehicles, and robotics
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Benefits

- **Enhanced Battery Safety:** Protects 2S lithium-ion packs from damage caused by overcharging, over-discharging, or short circuits.
- **High-Current Capability:** Supports 13A, allowing safe use in **high-power devices and motors**.
- **Durable and Compact Design:** Lightweight module that can easily fit into most battery enclosures.

- **Versatile Applications:** Suitable for DIY battery packs, hobby electronics, e-bikes, RC cars, and portable tools.
 - **Reliable Performance:** Ensures stable and consistent battery operation under high-load conditions.
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Applications

DIY Battery Packs

Perfect for assembling **2S lithium-ion battery packs** with 18650 cells, providing essential protection and reliable performance.

Electric Bikes and Portable Vehicles

Supports safe operation for **high-current battery packs** in electric scooters, e-bikes, and other small electric vehicles.

Hobby Electronics and Robotics

Ideal for **RC cars, drones, robotics kits, and high-power DIY projects**, ensuring your devices receive **stable and safe power**.

Portable Devices and Tools

Protects battery packs in **LED lighting, portable fans, and other moderate to high-drain electronics**.

Specifications

Specification	Details
Module Type	2S BMS PCM
Battery Configuration	2S Li-Ion / LiPo (7.4V nominal, 8.4V max)
Charge Current	13A
Discharge Current	13A
Protection	Overcharge, over-discharge, short circuit, overcurrent
Compatible Cells	18650 Li-ion cells

Specification

Details

Dimensions

Compact, easy to integrate

Installation Tips

- Observe correct polarity when connecting batteries to avoid damage.
 - Use proper soldering or welding techniques for a secure connection.
 - Do not exceed the rated 13A current to maintain safe operation.
 - Ideal for high-power DIY battery packs and portable electronics projects.
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Conclusion

The **BMS 2S 13A 18650 7.4V–8.4V Lithium Battery Protection Board** is an **essential component for high-current lithium battery packs**. Its advanced **overcharge, over-discharge, overcurrent, and short-circuit protections** safeguard your cells while extending their lifespan.

Perfect for **DIY battery projects, high-power electronics, portable devices, and electric vehicles**, this 2S BMS combines **robust protection, high-current capability, and compact design**, ensuring that your lithium-ion battery packs operate **safely, efficiently, and reliably**.

Investing in this **2S 13A BMS** guarantees **maximum battery performance, safety, and long-term reliability**, making it a critical addition to any high-power lithium battery project.