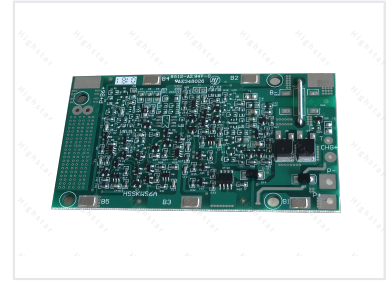
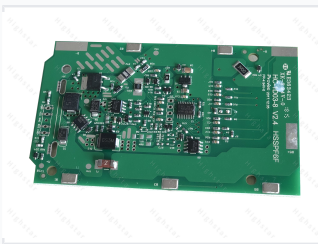


# Battery Management System Circuit Board

This circuit board is designed for battery management systems, ensuring the safe and efficient operation of rechargeable batteries. It provides voltage and current sensing, cell balancing, and protection against overcharge and over-discharge.



## ADDITIONAL IMAGES



## Overview

### Advanced Battery Management System

This Battery Management System (BMS) circuit board is engineered for precise power battery control and monitoring. With over a decade of technical development, it supports a wide range of battery configurations from 1 to 128 series. The board is designed for diverse applications including power tools, garden equipment, household appliances, and energy storage systems.

## Technical Specifications

### Protection Thresholds

Parameter	Min	Type	Max	Unit
Over Charge Detection Voltage	4.1	4.15	4.2	V
Over Discharge Detection Voltage	2.6	2.7	2.8	V
Over Current Detection Current	23	26	29	A

### Protection Delays

**1 S**

Over Charge Delay

**1 S**

Over Discharge Delay

**2.5 S**

Over Current Delay

**1000 uS**

Short Circuit Delay

## Performance Limits

### Operational Limits

- Max working current: < 600A
- Max charge current: 2A
- Static current consumption: 5uA
- Low voltage charging function:  $\geq 4V$

### Temperature Protection

**50 °C**

Charge Protection Temp

**70 °C**

Discharge Protection Temp

## Applications

### Suitable Applications

Power Tools, Garden Tools, House Appliances, Telecom, Energy Storage Systems