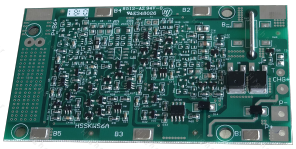
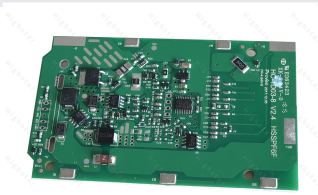
Battery Management System Circuit Board

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	1 S	2.5 S	1000 uS
Over Charge Delay	Over Discharge Delay	Over Current Delay	Short Circuit Delay

Performance Limits

Operational Limits

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

Temperature Protection

50 °C	70 °C
Charge Protection Temp	Discharge Protection Temp

Applications

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