



Let Green Energy Protect the World.

NEW ENERGY BMS INTEGRATED SOLUTION PROVIDER

Hefei Pengpai Energy Technology Co., Ltd

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WeChat Official Account



WeChat Channels



New Energy BMS

Integrated Solution Provider



Hefei Pengpai Energy Technology Co., Ltd

Enterprise Introduction

Hefei Pengpai New Energy Technology Co., Ltd., was established in 2017, it is a national high-tech enterprise specializing in the R&D, manufacturing, sales, and service of new energy battery management system and intelligent energy management platform. There are over 100 employees, with R&D engineers accounting for more than 60%. The core team possesses over ten years of experience in research, development, manufacturing, and management of new energy battery management technology.

Penergy adheres to a market demand-oriented approach, providing complete and comprehensive battery management solutions for the new energy power application field. Our products are widely used in various scenarios such as two, three and four-wheeled vehicles, commercial vehicles, intelligent robots, and drones, etc. Our products are exported to multiple countries and regions in Asia, America, and Europe. Currently, the company has simultaneously established marketing branches in Southeast Asia, India, North America, Europe, and other regions, actively advancing its global strategic layout.

Penergy is committed to becoming a leader in intelligent management technology for new energy battery, facilitating the intelligent transformation of energy, and enabling humans to fully enjoy green energy.

2017 Foundation
200+ Partners
3000m²+ R&D Headquarter
50万+units Annual Sales Volume



R&D Team

There are more than 60 personnel for researching and developing in Penergy, including 6 doctors and 16 masters. The proportion of undergraduate and above education is 100%. The core backbone of the team has more than 10 years of experience in research and development, manufacturing, and management of new energy battery management technology.

100%

The Proportion of Engineers with Bachelor's Degree or Above

103

Intellectual Property Right

10%

Annual Average R&D Investment Ratio

5

National, Provincial, and Municipal Major Scientific Research Projects

Honors and Certificates



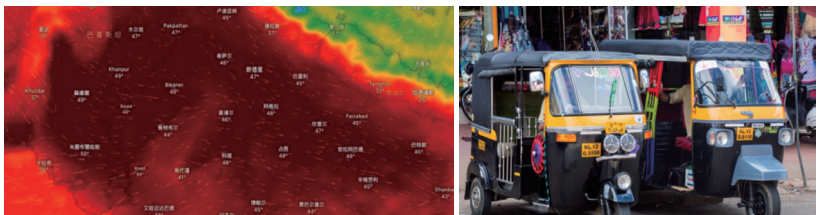
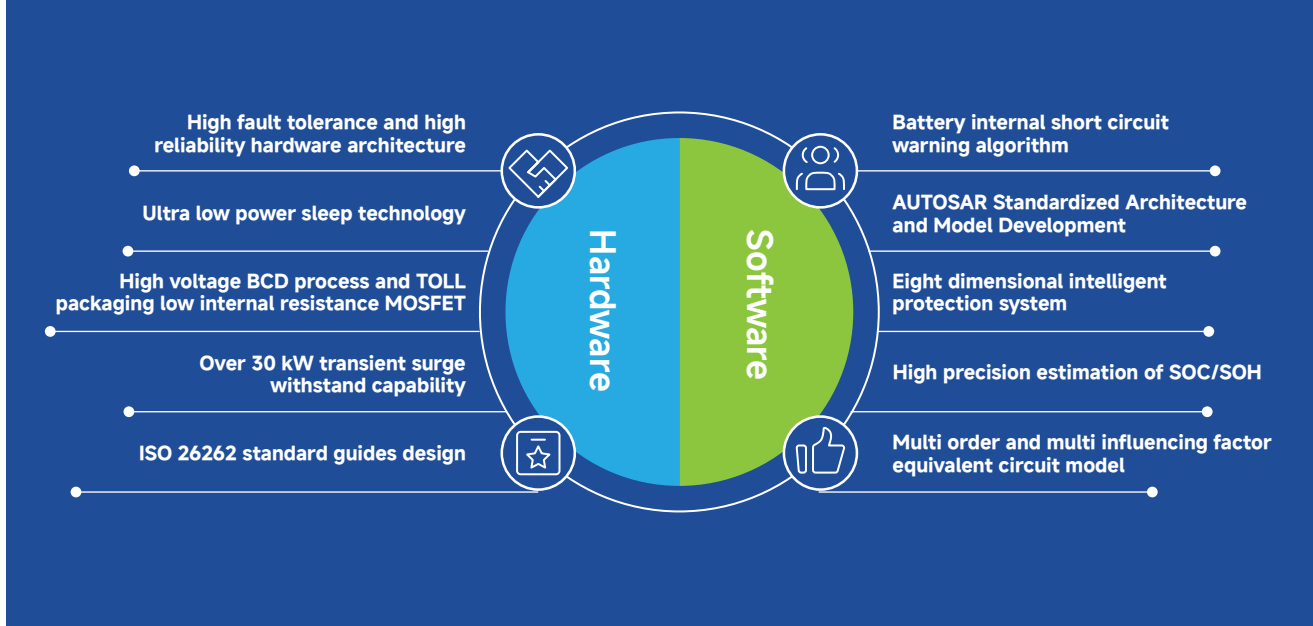
- National high-tech enterprise
- Anhui Provincial Science and Technology Award
- IATF16949 Quality System Certification
- Anhui Province Science and Technology Innovation Special Board Listed Enterprises
- CAA Natural Science Award
- "Software Products", "Software Enterprises"
- First Prize of Science and Technology Award of China Association for the Promotion of Science and Technology



Intelligent Solutions



Product Advantages



45°C
New Delhi, India
Vehicles are driving normally in high temperatures above 45 ° C continuously



-23°C
Heihe, China
Normal operation of vehicles in extremely cold temperatures of minus 23 ° C



3600M
Qinghai, China
Safe driving at an altitude of 3600 meters

Product Inspections

A comprehensive testing process for software and hardware, covering the entire lifecycle of BMS from performance debugging in the research and development stage to compliance certification in the mass production stage. Our products have been tested by CNAS laboratory and meet industry standards.

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EMC test



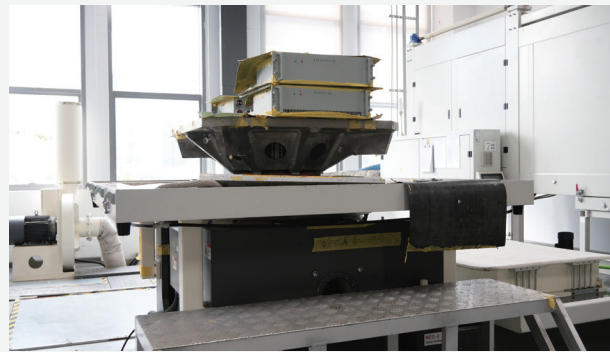
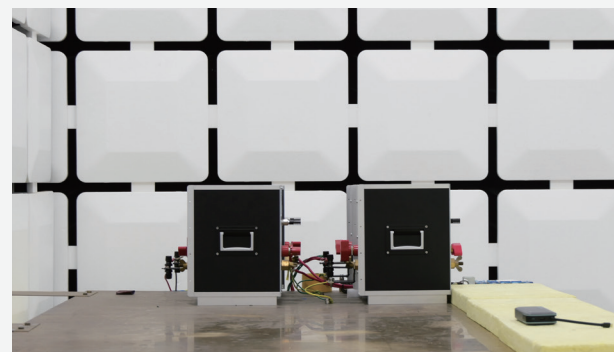
Environment Storage test



Electrostatic test



Vibration test



Intelligent Manufacturing

In the era of intelligent manufacturing, Penergy always regards quality as the first lifeline. Building a "black light production line" based on a fully automated MES system, covering solder paste printing, SPI inspection, AI visual recognition, and 3D AOI full inspection, achieving unmanned intelligent production throughout the entire process. Combined with X-ray and infrared thermal imaging, achieves micrometer level precision control. Full process closed-loop traceability ensures that every process can withstand repeated verification.

Each BMS undergoes extreme testing, insists on full inspection, and delivers with zero defects. We take test data as the cornerstone, full inspection standards as the bottom line, and rigorous processes to create reliability, making ultimate reliability inevitable and providing solid guarantees for every new energy vehicle.

Intelligent
electronic
material rack

Imported SMT
equipment

15 temperature
zone nitrogen
reflow soldering

Real time
monitoring of
static electricity
at the site



Light Electric Mobility Series

One step ahead · Smart protection throughout the entire process

Efficient heat dissipation
and stable output

Ultra low power sleep
technology

Wide temperature range
coverage from -30°C to 85°C

15 layers of software and
hardware full protection

High voltage BCD+TOLL
low internal resistance

Intelligent balance delays
cell decay

Application Scenarios



BMS Cloud connected lightweight power intelligent BMS

Accumulated transient
surge withstand capacity
exceeding 30 kilowatts

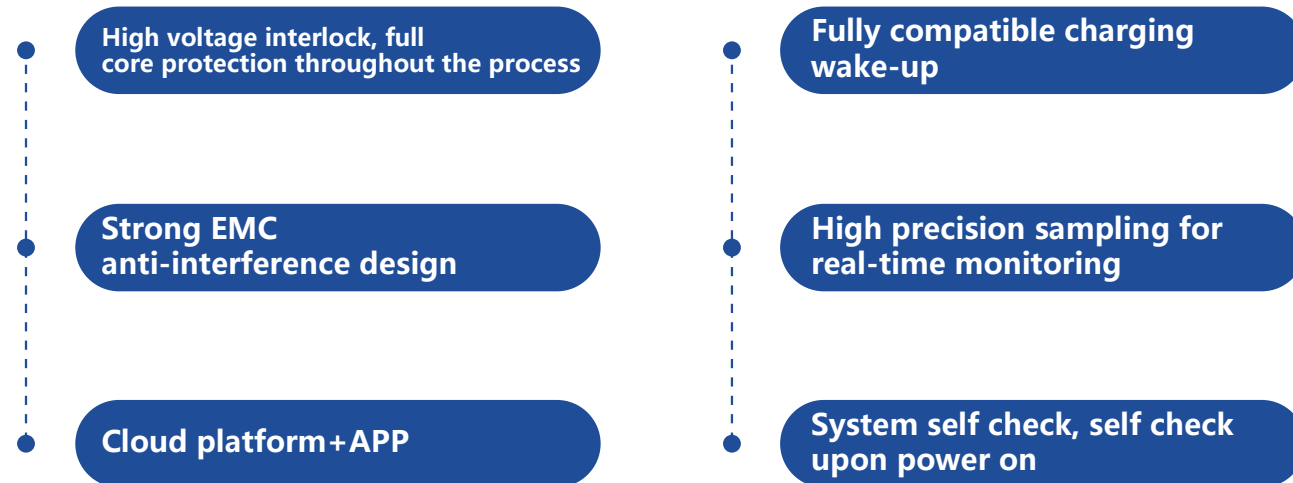
Cloud + App

Eight dimensional intelligent
protection system

Remote operation and maintenance,
real-time monitoring, precise balancing,
and adjustable parameters; Data traceability,
wireless connectivity, cloud collaboration,
proactive warning

Agricultural & Industrial Machinery Series

Intelligent control of the overall situation and stable control of the entire situation

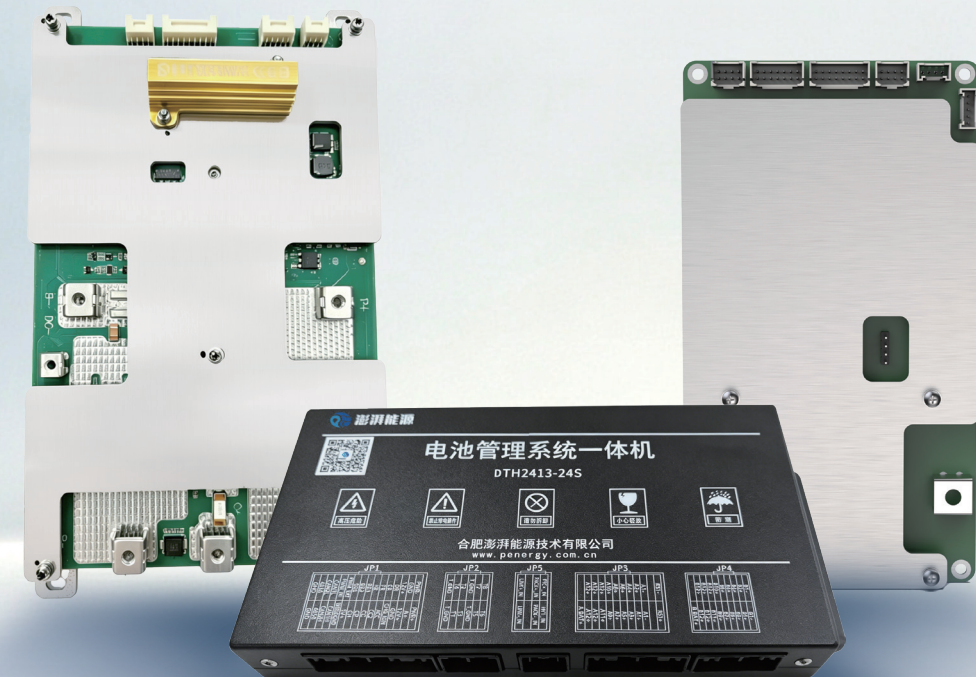


Application Scenarios

lawn mower



Farming machine



Dual redundant high-precision intelligent BMS

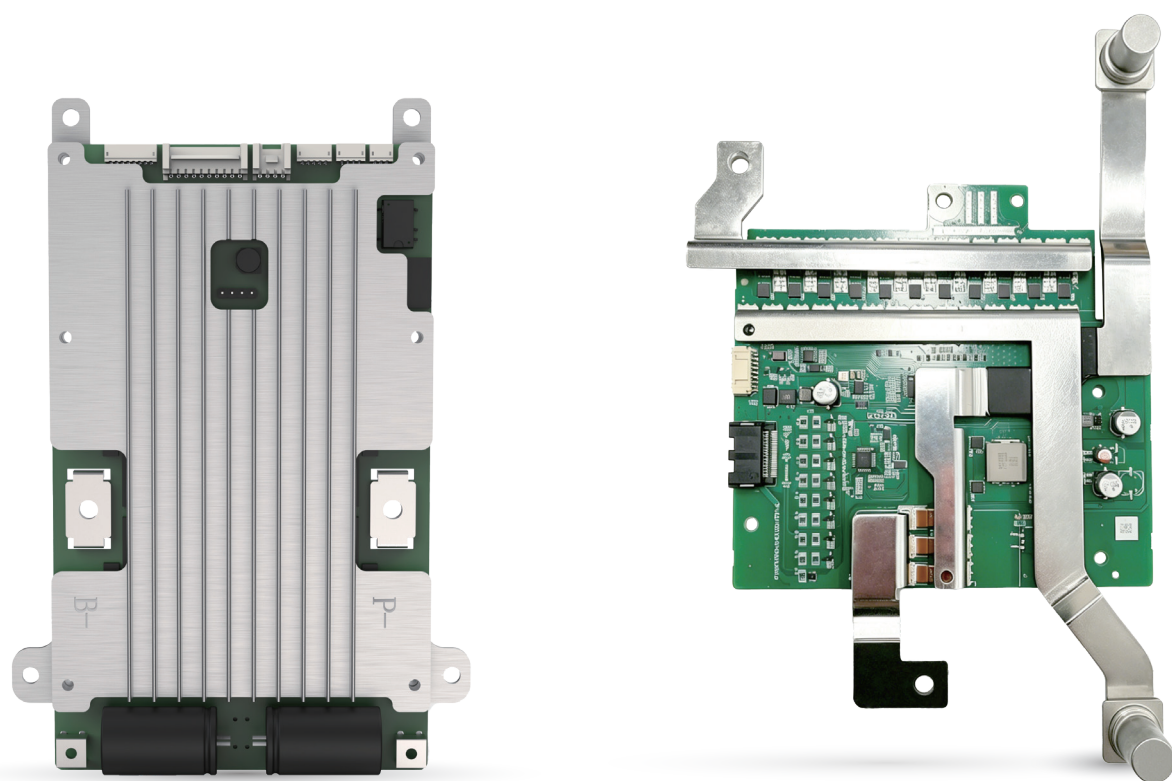
Protection circuit and acquisition circuit
Dual redundancy design

Ultra wide pressure input range
Fearless of drastic voltage fluctuations

Hall detection
shunt detection

Highly Integrated
4G+GPS

Communication
485/CAN



Starter Battery Series

Power on immediately, Ride with force

Instantly withstand 2500A
surge impact

Adaptive active current
limiting

High voltage surge absorption

Anti reverse connection,
anti sparking, anti surge

One click forced start

Intelligent operation and maintenance,
real-time visibility of device status

BMS

Intelligent monitoring supporting peripherals



4G module+4G handle

4G remote control terminal

Positioning accuracy<10M

Multiple wake-up methods

Support the entire network and Southeast Asia region

Capacitive touch button

OTA seamless upgrade

Ultra-low power

LED battery level display



4G Module



4G Handle

Bluetooth display

Bluetooth 5.1

Ultra low sleep power consumption $\leq 1.65\text{mA}$

Accurate alarm for over 100 fault codes



Real time display of key parameters

Industrial grade wide temperature design

IP54 protection level



Fault Prompt



Voltage



Battery level



Current



Temperature



Charging and discharging

Partner



Global layout

Cumulative shipments

300万+

Best selling countries

10+

Our clients

200+

