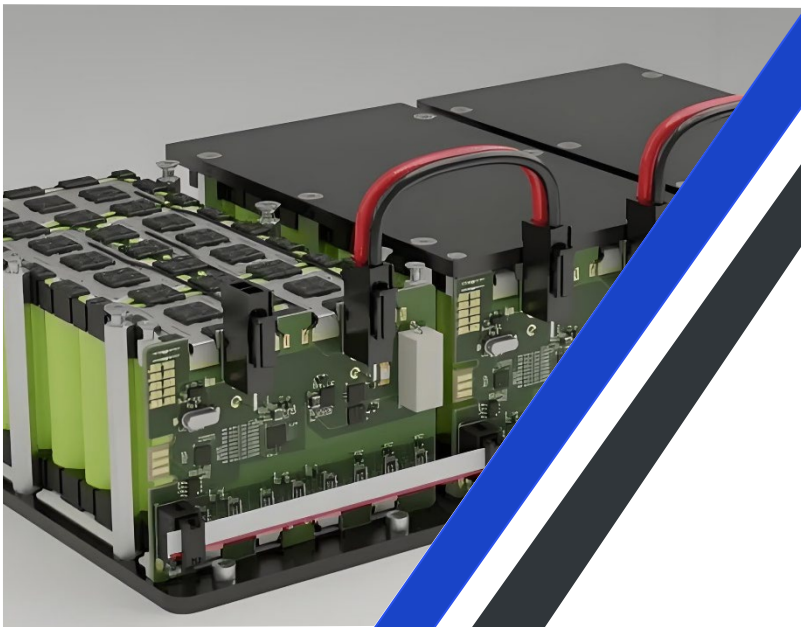


Value-added PCBA Service For Battery Management System



- ✓ DESIGN SERVICES
- ✓ BOM ANALYSIS
- ✓ COST SAVINGS
- ✓ INVENTORY MANAGEMENT
- ✓ VALUE ADDED SERVICES
- ✓ SHORTAGE/EOL MANAGEMENT



WHO ARE WE

PCBONLINE® is a one-stop PCBA manufacturer. We excel in Design for Manufacturing (DFM), offering product analysis, corrections, upgrades, and software development. We provide specialized testing and direct engineer communication. PCBA value-added services are available to meet unique needs.

With a wide range of component types, we have a big database of suppliers. Our sourcing offices in Europe and Hong Kong enable us to establish direct manufacturer contacts and ensure efficient procurement processes. We can select appropriate alternate components to reduce your PCBA costs. PCBA value-added services are available to meet unique needs.

VALUE ADDED SERVICES

- ✓ Programming
- ✓ Expert Factory Technical Support
- ✓ Box Build/Full Turn Key
- ✓ Flexible Payment Terms
- ✓ Just-in-Time Delivery
- ✓ Technical Presentations
- ✓ Tape and Reel
- ✓ Kitting

BOM ANALYSIS AND COST SAVINGS

Electronic components are the most costly materials in a BMS and any PCBA project, and an error-free BOM (bill of materials) is a roadmap to a successful project. Many companies do not have the resources required to track all of the parts in a dynamic component market... that is, until there is a problem.

Why not let PCBONLINE help?

Using industry-leading software tools, PCBONLINE will identify at-risk components before they impact production and work with you to find alternatives. If no source is available, we can warehouse buffer stock and allow you time to redesign with a supported component.

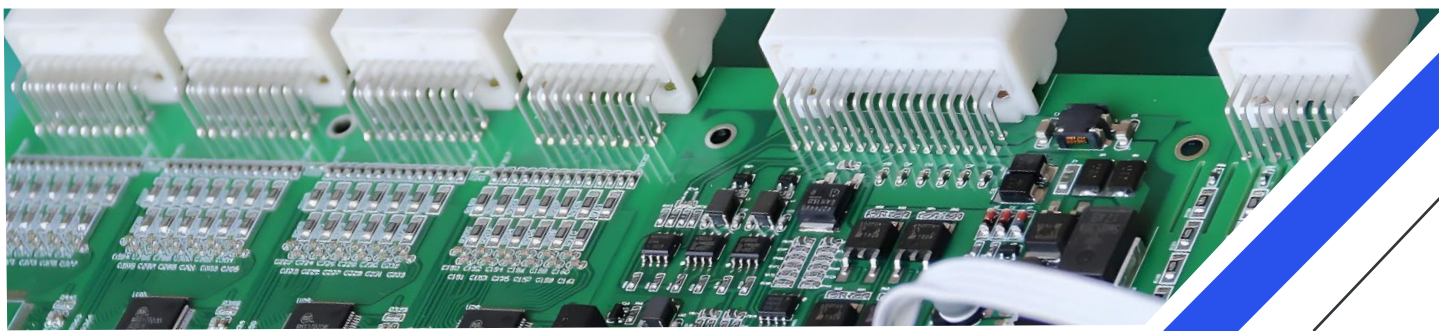
We will work closely with R&D, Engineering, and Procurement to ensure each has the most up-to-date component data.

CUSTOM SOLUTIONS, PERSONAL SERVICE

When off-the-shelf won't fit, PCBONLINE can provide a solution tailored to your unique needs. 90% of thermal management projects, for example, require customization. EMI issues can be tough to tackle with standard products and, with the common use of microcontrollers, are ever more present. Even microcontrollers themselves can be crafted for a perfect fit using building blocks such as LCD drivers, power management, motor control, and communication modules – all in a tiny, power-sipping package.

OTHER SERVICES

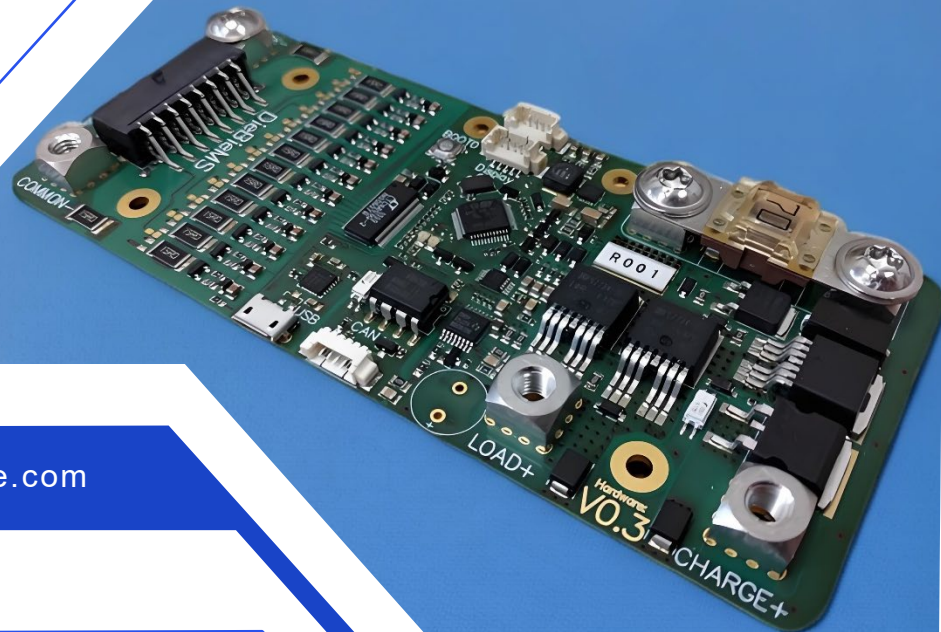
Even with careful planning, supply issues can occur. PCBONLINE maintains an entire team dedicated to locating difficult to find parts at competitive prices. Even if you missed a Last Time Buy or End Of Life notice, the Independent Distribution team is an expert at resolving the shortage.



PCBONLINE's BMS PCBA Manufacturing Service

PCBONLINE® is a company focused on the production of PCBA for battery management systems (BMS) in electric vehicles. With extensive experience and technical strength, it can provide clients with one-stop services including R&D support, component procurement, PCB manufacturing, component assembly, software programming, functional testing, and aging.

PCBONLINE® is also a reputable BMS manufacturer with 20 years of PCBA production experience. We have a strong track record and customer recognition in producing high-quality BMS PCBA, known for their reliability, high sensitivity, and stable performance.



 info@pcbonline.com

ADVANTAGES OF CENTRALIZED PROCUREMENT OF COMPONENTS

We understand that as an electronic manufacturing supplier, helping customers reduce supply chain costs is beneficial and crucial for both parties. Thanks to our large BMS customer base, we can consolidate BOM orders and purchase from component suppliers at the lowest prices. We pass on these savings to our customers, typically disclosing our procurement prices and only charging a 3-5% procurement service fee.

I believe that price transparency and quality assurance in the supply chain are essential components of a win-win collaboration.

- **High-Quality Materials:**

The lithium battery protection board utilizes brand-new MOSFETs with low internal resistance and integrated chips, providing excellent performance and drop protection.

- **Advanced Battery Protection:**

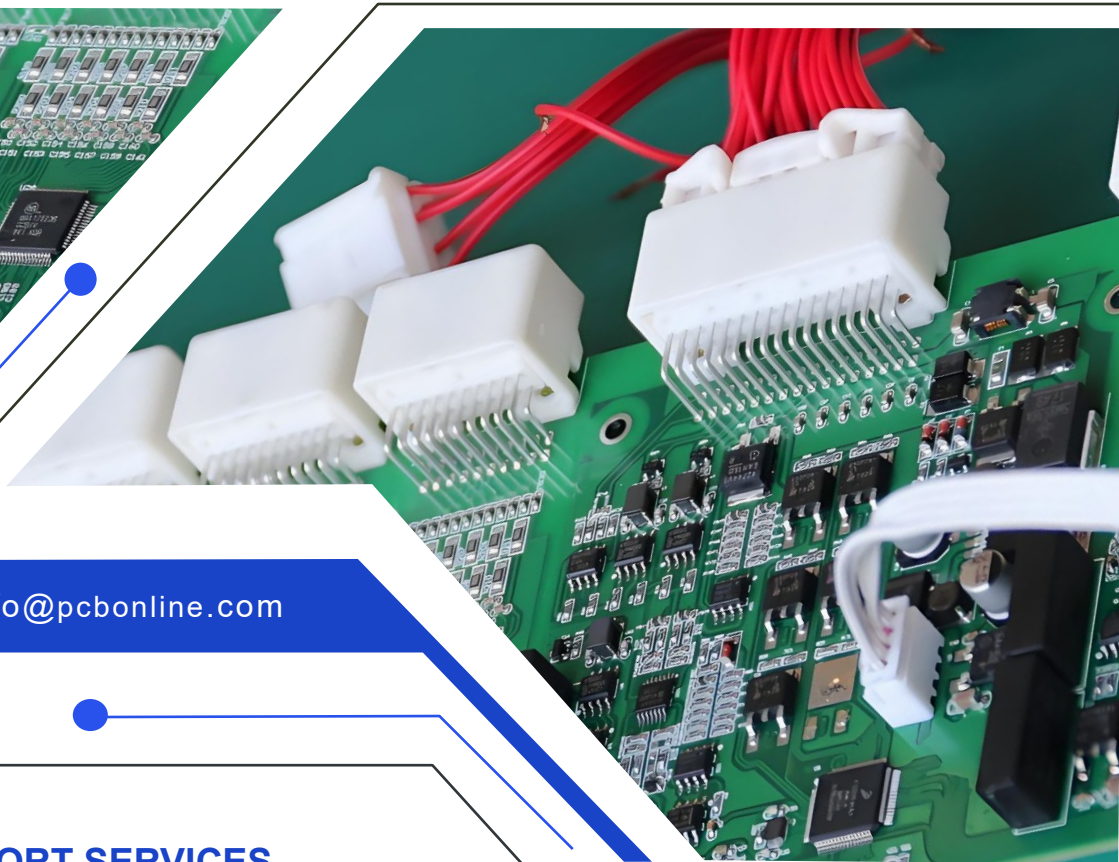
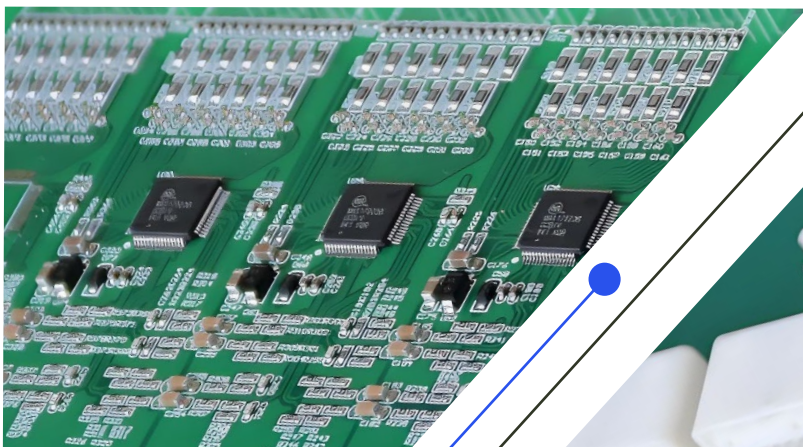
The BMS PCB Board for Lithium Batterie Packs integrates advanced protective circuitry designed to prevent overcharging, over-discharging, and short-circuiting issues. This feature guarantees the battery's long-term well-being and safeguards its safety.

- **High Energy:**

The lithium battery protection board has a compact design and high energy density, making it suitable for use with the 18650 ternary Li-ion cell battery protection BMS PCB Board. It features low current consumption and temperature control for efficient operation.

- **High Cost-Performance Ratio:**

The components of the BMS PCB are coated with the conformal coating, providing enhanced safety and efficient heat dissipation. This ensures a high cost-performance ratio, offering excellent value for money.



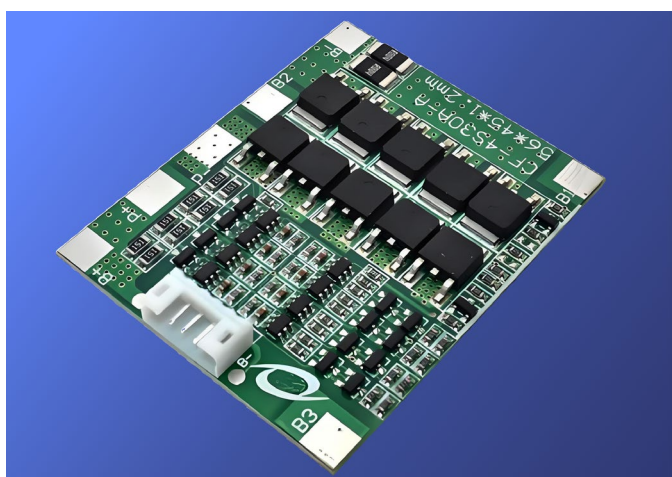
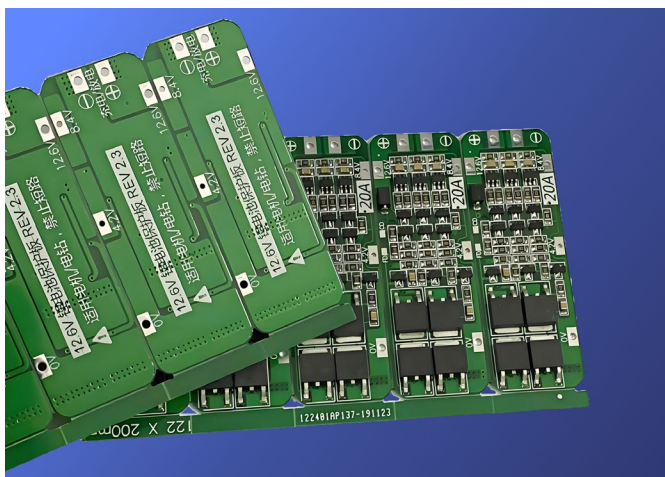
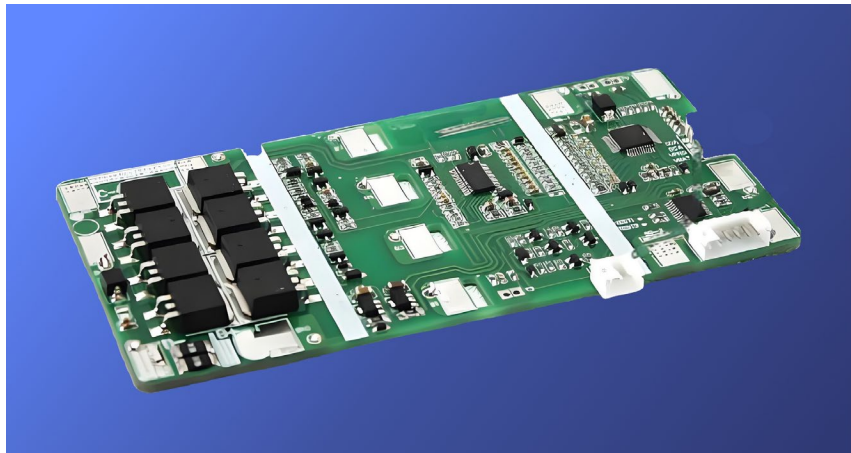
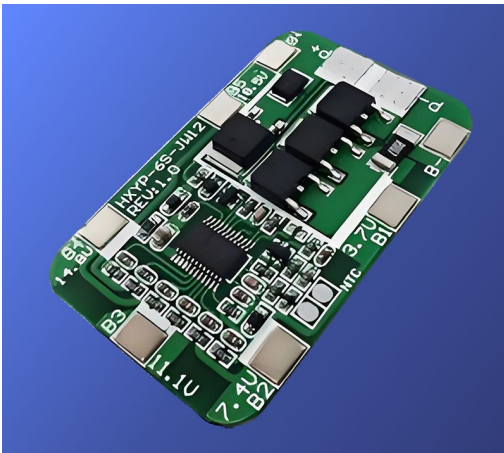
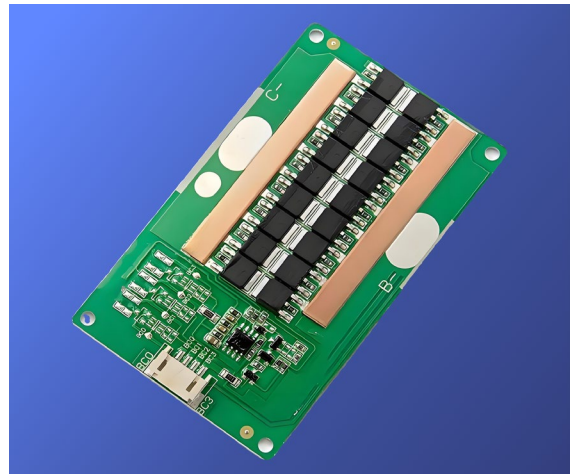
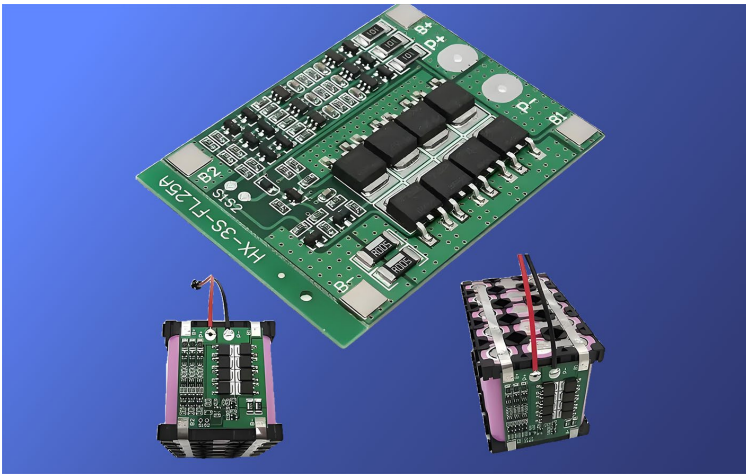
 info@pcbonline.com

BMS PCBA DESIGN SUPPORT SERVICES

Time to market is key to success in any industry, and at the pace of today's changing technology, this has never been truer. PCBONLINE brings a combination of in-house and manufacturer technical expertise to bear on your most challenging BMS design issues.

Our goal is always to find a solid, cost-effective solution that will serve you both now and soon. From concept through production and warranty repairs, PCBONLINE should be your BMS design partner.

BMS PCBA CASE SHARING





info@pcbonline.com

● BMS PRODUCTS ARE TRUSTED BY OUR CUSTOMERS

VOLVO



INNOVIZ
TECHNOLOGIES

NSNA
NIPPON SEIKI NORTH AMERICA

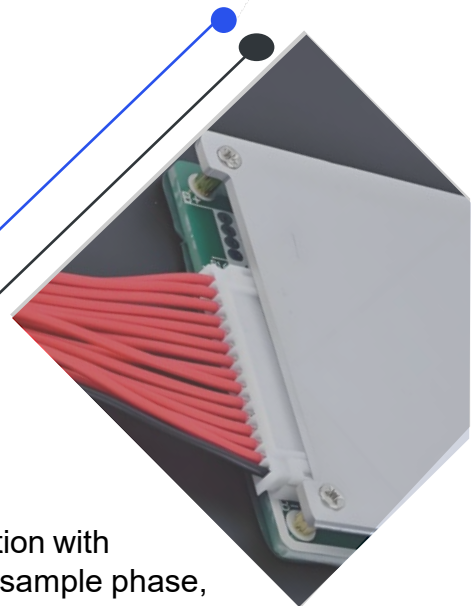
solaredge

CATL

DENSO
Crafting the Core



WEICHAI



● APPRECIATION FROM CUSTOMERS



Michael Stanton
Technical Director

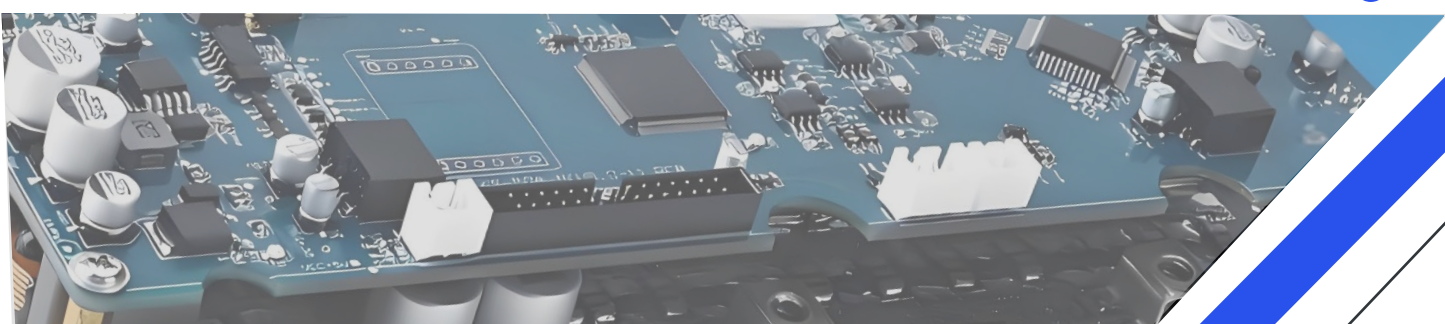
The technical team at PCBONLINE conducts free DFM analysis before production, helping us identify potential design issues and providing detailed solutions and recommendations. Additionally, they include alternative components in the report for our comparison and review, helping us reduce costs by at least 10%. Most importantly, this technical support saves us time! This level of support sets them apart from my other PCBA suppliers.



We began our collaboration with PCBONLINE during the sample phase, and it has now evolved into monthly orders of thousands of units. Throughout our various projects together, the PCBONLINE team has consistently worked to assist us with cost optimization and efficiency. Thanks to their expertise in lithium battery CCS and BMS, as well as their complete supply chain, our partnership has become seamless and efficient.



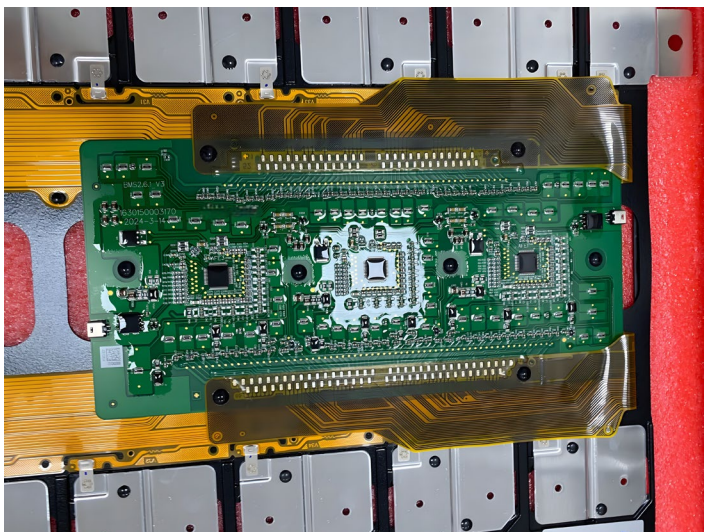
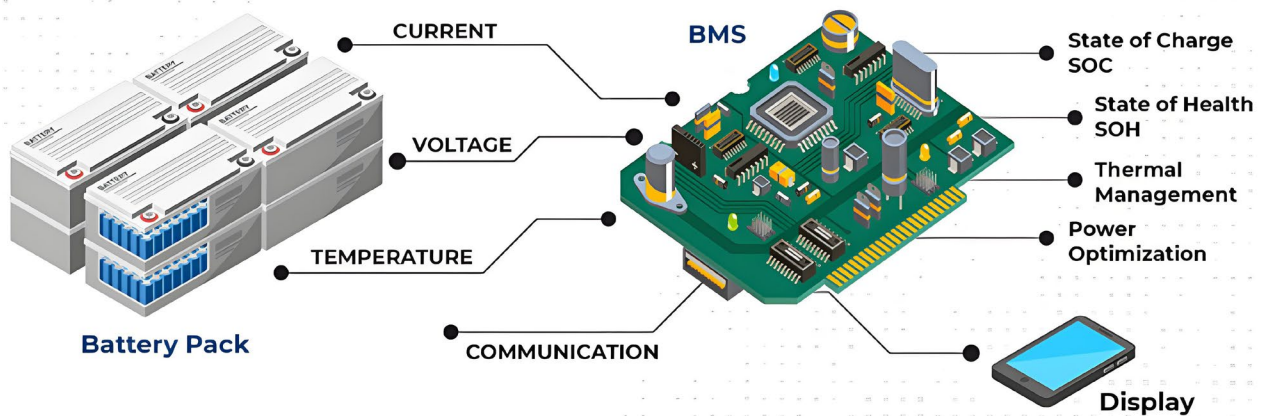
Adam Bailey
Principal Multi-Function Engineer



VALUE ADDED SERVICES

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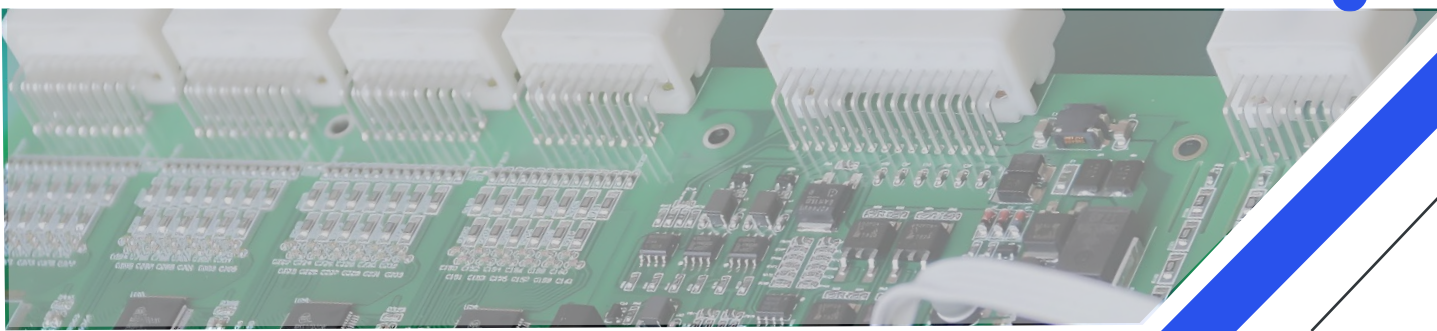
BATTERY MANAGEMENT SYSTEM FOR ELECTRIC VEHICLES



COORDINATION BETWEEN CCS AND BMS IN POWER BATTERIES

In power battery systems, CCS (Cells Contact System) and BMS (Battery Management System) are two important components that closely coordinate with each other. In addition to producing BMS, PCBONLINE is an expert in the research and production of CCS products. We have specialized documentation to introduce CCS products; if you need relevant information, please contact us.

Why Not Let PCBONLINE Help?





YOUR RELIABLE PCBA MANUFACTURER FOR **BMS**



CERTIFICATIONS

- ✓ ISO 9001:2015
- ✓ ISO 14001:2015
- ✓ IATF 16949:2016
- ✓ REACH (EC 1907/2006)
- ✓ UL



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