BCH Series

Mobile BESS Charger

Revolutionize remote power for EVs and ECMs

www.mpmc-group.com

Solving Key Charging Challenges

Extended Range Anxiety

Off-grid power uncertainty poses significant challenges for EV fleets and users, particularly in remote, temporary, or weak-grid environments.

Infrastructure Cost Barriers

High investment and lengthy timelines for permanent charging (construction and grid upgrades) prohibit their use for temporary or dynamic requirements.

The Temporary High-Power Dilemma

Events, film productions, and disaster response operations require rapid deployment of high-capacity, clean power, yet such temporary demands still largely rely on diesel generators constrained by environmental regulations.

Underutilized Assets

Fixed energy assets, such as stationary chargers and storage systems, often suffer from low utilization rates. Customers require multi-functional, high-value assets that can be dynamically deployed to match evolving operational demands.

BCH

MOBILE BESS CHARGER

Storage & Charging in one

Integrated installation, convenient storage and transportation
Power and Capacity can be expanded, meet different user needs

Mobile Supercharger

Simple operation and easy maintenance
High return on investment and short payback period

Model	BCH-80-70	BCH-275-200	BCH-600-400	BCH-800-600	BCH-500-1000
Peak Output Power	80kW	150kW	400kW	600kW	500kW
Battery Capacity	70kWh	203.5kWh	407kWh	610.6kWh	1075kWh
Charging gun	CCS2 260 A *1	CCS2 250 A *2	CCS2 350 A *2	CCS2 350 A *2	CCS2 350 A *2
Connector Cable Length	7m	5m	5m	5m	5m
AC Input Rated Power	N/A	125kW	400kW	400kW	500kW
AC Output Rated Power	N/A	125kW	200kW	200kW	OPTION
DC Input Rated Power	70kW DC	150kW DC	OPTION	OPTION	OPTION
PV Input AC	N/A	N/A	N/A	N/A	N/A
PV Input DC	N/A	N/A	OPTION	OPTION	OPTION
DC Output	Charging Gun Only	Charging Gun Only	OPTION	OPTION	OPTION
Loading Dimension (L*W*H)	1460*780*1200 mm	2250*1450*1800mm	3650*2250*2250mm	4800*2250*2250mm	20'GP

Certification

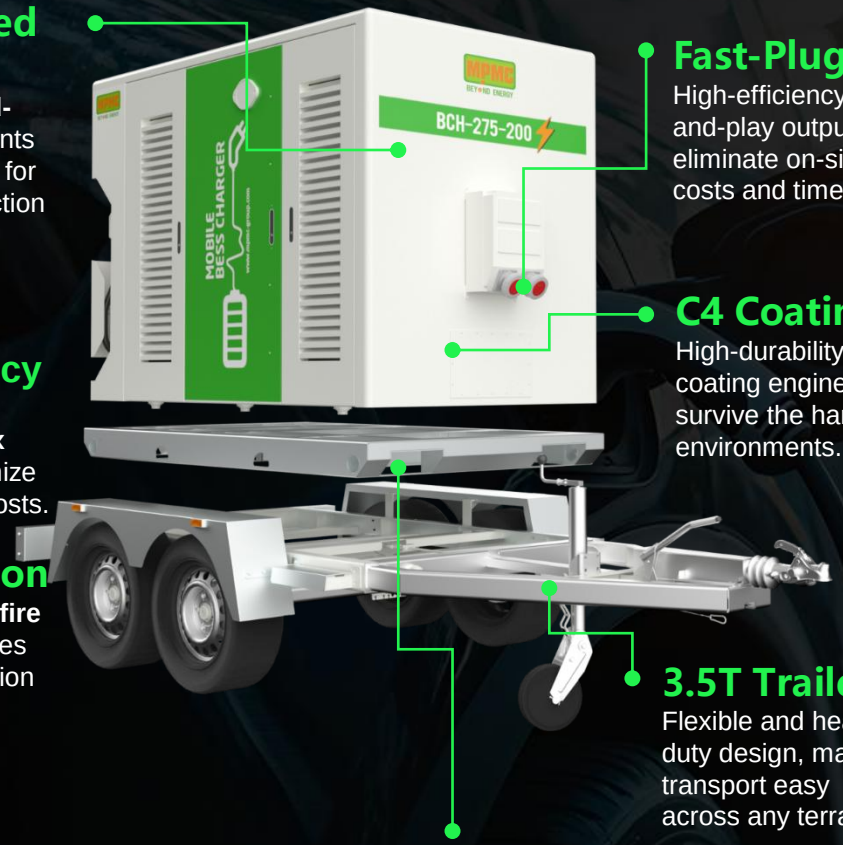
CE UN38.3

BCH Series
BCH-275-200

Liquid-Cooled Battery
Fully sealed liquid-cooled pack prevents dust buildup—ideal for mines and construction sites.

High Efficiency
Optimized system achieving **91% max efficiency** to minimize power waste and costs.

Fire Protection
Built-in **multi-level fire safety** to protect lives and secure production assets.



Fast-Plug Box
High-efficiency plug-and-play output to eliminate on-site wiring costs and time.

C4 Coating
High-durability industrial coating engineered to survive the harshest environments.

3.5T Trailer
Flexible and heavy-duty design, making transport easy across any terrain.

Forklift Hole
Integrated Forklift hole for Easy Transport

EMS
Smart control with **cloud-ready API** to seamlessly integrate with your own management system.

Charging Gun
Dual-gun high-power fast charging

Start-Stop Switch
One-touch operation for a user-friendly experience and lower failure rates.

AC Input
Universal grid compatibility for easy recharging.

DC Supplementary Charging
Designed for rapid power dispatch between units and fast recharging via DC piles.

BCH Series

BCH-800-600 / BCH-500-1000

Liquid-Cooled Battery

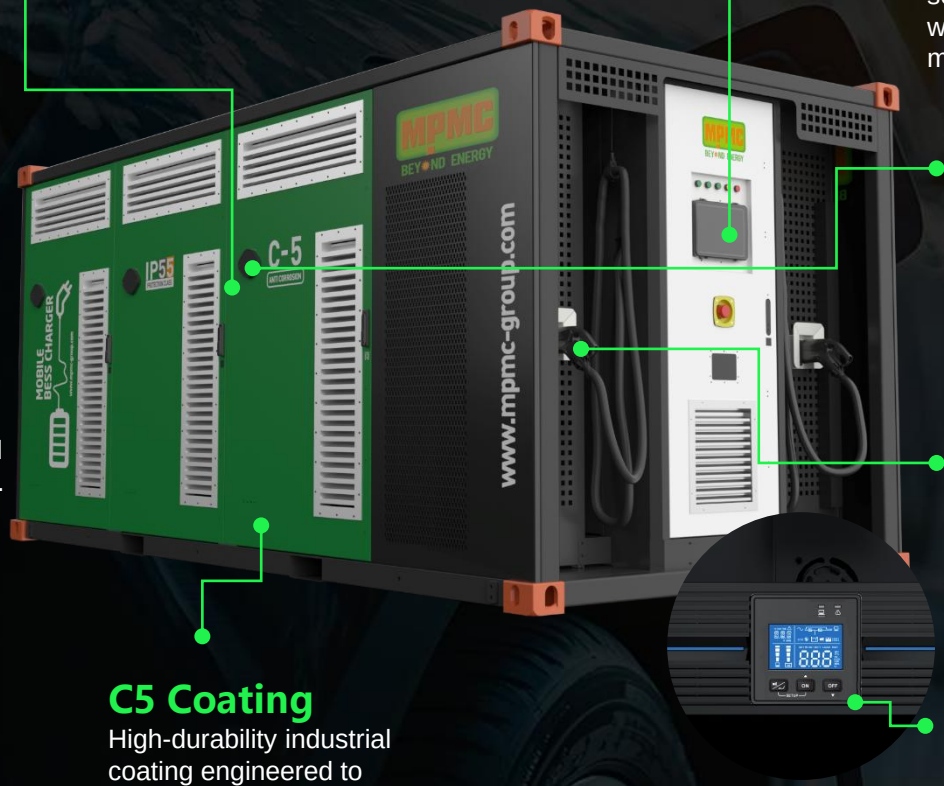
Fully sealed liquid-cooled pack prevents dust buildup—ideal for mines and construction sites.

High Efficiency

Optimized system achieving **91% max efficiency** to minimize power waste and costs.

Fire Protection

Built-in multi-level fire safety to protect lives and secure production assets.



C5 Coating

High-durability industrial coating engineered to survive the harshest environments.

EMS

Smart control with **cloud-ready API** to seamlessly integrate with your own management system.

Explosion-proof Breather

Precision pressure relief for maximum safety in extreme conditions.

Charging Gun

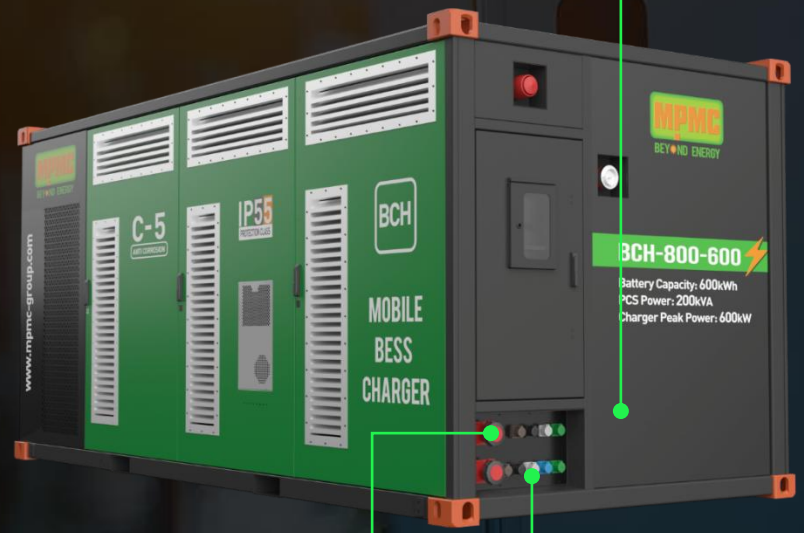
Supports simultaneous charge and discharge for a more versatile, universal application.

Uninterruptible Power Supply

Cabinet-enclosed activation for seamless, zero-downtime power protection.

1C Performance (BCH-800-600)

1C charge / discharge for rapid energy transfer and high-intensity power delivery.



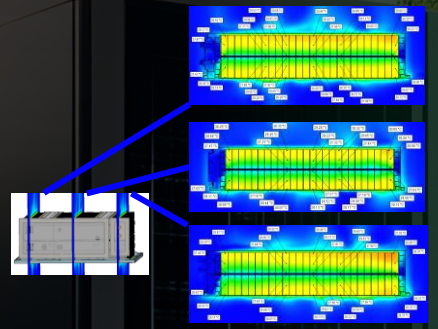
AC Input

Universal grid compatibility for easy recharging.

AC Output

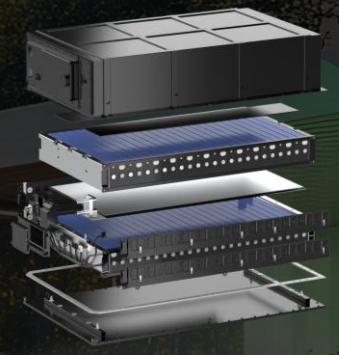
High-stability power hub for universal equipment compatibility on any job site.

The Hardcore Power for Construction Machinery
Blade Battery System



Thermal Excellence

- **65% Larger Dissipation Area:** Maximizes cooling efficiency.
- **6.7°C Precision Control:** Industry-leading low temperature variance for stable power.
- **390Wh/L Density:** Provides more energy in a smaller footprint.



Ultra-Strong "Sandwich" Architecture

- **"Sandwich" Architecture:** Specialized high-strength design for extreme structural rigidity.
- **Certified Reliability**: Fully tested for fire, water immersion, high-impact collision, and crush.

Industry-Leading DC Side Coupling

- **Direct DC Coupling:** Delivers up to 87% discharge efficiency.
- **Smart Integration:** High-efficiency power conversion (AC to DC) specifically for E-Construction Machinery.

Application

POWER SOURCE

Grid

Gensets

DC Charging Gun

BESS

Other AC Charging

BCH-275-200

CHARGE FOR

Electric Vehicles & Electric Trucks

Compact Machinery

Other loads

Application

POWER SOURCE

Photovoltaic

Grid

DC Charging Gun

Gensets

BESS

Other AC Charging

BCH-800-600
BCH-500-1000

CHARGE FOR

Electric Vehicles & Electric Trucks

Heavy-Duty Machinery

Other loads

How to Get Return

01

Electricity Sales

- **Strong Pricing Power:** Addresses critical "off-grid" and "emergency" scenarios where high-demand users prioritize immediate power access over cost.
- **Diverse Revenue Streams:** Generates recurring income through micro-grid energy sales and high-power delivery premiums.
- **High-Margin Model:** Maximizes profitability by pairing with Photovoltaics (PV)—converting zero-cost solar energy into high-priced electricity sales.

02

Lowest Labor

- **Rapid Deployment:** The BCH series eliminates the high costs and delays of grid reconstruction, offering an integrated mobile solution that achieves full operation within 24 hours.
- **Autonomous Operation:** Integrated SCADA & EMS minimize labor costs through automated energy management.
- **Remote Control:** Full monitoring and system command via Ethernet for seamless oversight.

Cases

Contact us for your solutions!

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MPMC

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MPMC Group