

# Hailei海雷®

## POWER BATTERY

LEADING THE SMART SWAPPING ERA,  
SETTING A NEW STANDARD IN POWER BATTERIES



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Website

# 48V TWO-WHEEL LITHIUM BATTERY SERIES

## High Safety | High Protection | Long Endurance

The 48V two-wheel battery series integrates intelligence, safety, and durability into one. It features multi-layer safety protection, including self-diagnosis, encrypted charging, and anomaly alerts. Built with a robust structure and IP67-rated protection, it adapts to diverse usage environments. Equipped with SOC algorithms and balancing functions, it ensures stable, efficient performance and high endurance, long lifespan.

### | Features

#### Safety Self-Check

Automatic diagnostics with buzzer alerts for secure riding.

#### IP67 Protection

Waterproof and dustproof for reliable all-weather use

#### Long Endurance

High energy density for extended durability.

#### Flame Retardant & Fire Resistant

UL94-V0 flame-retardant materials with anti-sparking design.

#### Smart Management

Accurate SOC calculation with remote status monitoring.

#### Reliable Structure

Double-layer structure & Tower design, Double protection.



### | Parameters

Parameters	4824	4820
Energy	1152Wh	960Wh
Dimension	184*156*265mm	164*155*265mm
Weight	11kg	9kg
Series/Parallel Connection	16S/15S	16S/15S
Cell	LiFePO4	LiFePO4
Maximum Continuous Charging Current	12.0A@25℃	10.0A@25℃
Maximum Continuous Discharging Current	36.0A	30A
Cycle Life	800@≥80%	800@≥80%
Endurance	57km	48km
Ingress Protection Rating	IP67	IP67
Certifications	43854	43854

### | Application





# 48V TWO-WHEEL SWAPPABLE LITHIUM BATTERY SERIES

## Intelligent Protection | Real-time Monitor | Safe & Stable

The 48V two-wheel swappable battery series is designed for high-frequency usage scenarios, featuring Beidou positioning, 4G communication, and OTA remote upgrades for round-the-clock battery status monitoring. Its dual-layer flame-retardant structure meets the IP67 standard, offering fire resistance, impact resistance, and exceptional reliability. With balancing functionality and SOC algorithms, the battery ensures continuous high efficiency. It supports encrypted in-cabinet charging, enhancing safe and standard management and fully safeguarding riding safety.

### | Features

#### Smart Monitoring

Beidou 4G + OTA for real-time status tracking

#### Structural Protection

IP67-rated dual-layer flame-retardant casing.

#### Efficient Management

High-precision SOC for intelligent endurance.

#### Standardized Swapping

Encrypted charging prevents unsafe private charging.

#### Flame Retardant & Fire Resistant

UL94-V0 materials with anti-sparking design.

#### Rugged & Reliable

Dual-layer structure, tower design for enhanced



### | Parameters

Parameters	4825	4820
Energy	1200Wh	960Wh
Dimension	184*156*265mm	184*156*265mm
Weight	11.5kg	9.5kg
Series/Parallel Connection	16S/15S	16S/15S
Cell	LiFePO4	LiFePO4
Maximum Continuous Charging Current	12.5A@25°C	10.0A@25°C
Maximum Continuous Discharging Current	37.5A	30A
Cycle Life	1200@≥80%	1200@≥80%
Endurance	60km	48km
Ingress Protection Rating	IP67	IP67
Certifications	43854	43854

### | Application



# 4840 / 6040 / 7240 COMMERCIAL BATTERY-SWAPPING SERIES

## High-Frequency Swapping | Smart Monitoring | Safe & Reliable

The Commercial Battery-Swapping Series is built for high-frequency applications such as express delivery, food delivery, and logistics. It supports battery self-diagnosis, positioning, and remote OTA upgrades for full-process intelligent monitoring and alerts. Featuring laser welding and a dual-layer tower structure, it achieves IP67 protection for exceptional durability. The intelligent management system integrates balancing technology, high-precision sampling, and multi-point temperature sensing to ensure stable endurance and accurate power readings. Only encrypted in-cabinet charging is supported.

### | Features

#### Smart Positioning & Monitoring

Beidou + 4G for remote, visualized management.

#### OTA Remote Upgrades

More efficient and convenient system maintenance.

#### Robust Structural Design

Dual-layer tower structure for impact and pressure resistance.

#### Industrial-Grade Protection

IP67 for reliable all-weather operation.

#### Intelligent Power Management

Precise SOC with balancing system.

#### Encrypted In-Cabinet Charging

Safe and private charging.



### | Parameters

Parameters	4840	6040	7240
Energy	1920Wh	2400Wh	2880Wh
Dimension	180*170*300mm	180*170*320mm	238*170*320mm
Weight	≈16kg	≈20kg	≈24kg
Series/Parallel Connection	16S	20S	24S
Cell	LiFePO4	LiFePO4	LiFePO4
Maximum Continuous Charging Current	20A@25 °C	20A@25 °C	20A@25 °C
Maximum Continuous Discharging Current	60A	60A	60A
Cycle Life	1200@≥80%	1200@≥80%	1200@≥80%
Endurance	120km	110km	100km
Ingress Protection Rating	IP67	IP67	IP67

### | Application





# 6050/7250 LITHIUM-ION TERNARY BATTERY SERIES

## High Energy Density | Smart Monitoring Safe | Enhanced Safety

The Ternary Battery-Swapping Series offers higher energy density, supporting battery self-diagnosis, Beidou positioning, and 4G remote communication for 24/7 online monitoring and alerts. Featuring a dual-layer protective structure and laser-welding process, the batteries meet IP67 standards with flame-retardant materials, adapting to high-temperature, humid, and complex environments. The management system integrates precise SOC algorithms, temperature monitoring, and balancing functions to ensure stable endurance. Encrypted in-cabinet charging is supported, fully meeting the safety and regulatory requirements of high-frequency swapping and shared mobility scenarios.

### | Features

#### High Energy Density

Powered by ternary cells for stronger performance.

#### High-Frequency Adaptability

Specially designed for frequent swapping in shared mobility.

#### High-Precision SOC

Combines estimation, modeling, and calibration for accurate readings.

#### Smart 24/7 Monitoring

Beidou 4G communication for round-the-clock remote control.

#### Dual-Layer Structural Protection

Inner tank, outer shell design for greater shock and pressure resistance.

#### Encrypted In-Cabinet Charging

Supports cabinet-level encryption.



### | Parameters

Parameters	6050	7250
Energy	3000Wh	3600Wh
Dimension	182*170*325mm	208*170*325mm
Weight	≈18kg	≈21kg
Series/Parallel Connection	17S	20S
Cell	Lithium-ion Ternary Battery	Lithium-ion Ternary Battery
Maximum Continuous Charging Current	25A	25A
Maximum Continuous Discharging Current	75A	75A
Cycle Life	1200@≥80%	1200@≥80%
Endurance	90km	110km
Ingress Protection Rating	IP67	IP67

### | Application



# 6055 / 7255 BATTERY-SWAPPING SERIES

## Industrial-Grade Protection | Precise Monitoring | Stable & Reliable

The 6055 / 7255 Battery-Swapping Series is designed for high-frequency usage scenarios, featuring self-diagnosis, Beidou positioning, and 4G remote communication to enable real-time monitoring and alerts. Built with a sheet-metal structure and laser-welding process, it achieves IP67 protection, delivering strong resistance against pressure and impact to withstand complex outdoor environments. It supports cell balancing and precise SOC calculation to ensure efficient and stable performance. Encrypted in-cabinet charging is supported, making it compatible with multi-platform swapping systems.

### | Features

#### Remote Monitoring

4G communication for real-time battery status visibility.

#### Robust Structure

Sheet-metal casing for enhanced impact and pressure resistance.

#### Intelligent Management

High-precision SOC and balancing algorithms for stable operation.

#### Accurate Positioning

Built-in Beidou system for anti-theft tracking

#### Comprehensive Protection

IP67-rated for waterproof, dust-proof, and high-temperature endurance.

#### Standardized Charging

Encrypted in-cabinet charging only, preventing unsafe private connections.



### | Parameters

Parameters	6055	7255
Energy	3300Wh	3960Wh
Dimension	172*225*303mm	172*225*330mm
Weight	≈20kg	≈22kg
Series/Parallel Connection	17S	20S
Cell	Lithium-ion Ternary Battery	Lithium-ion Ternary Battery
Maximum Continuous Charging Current	22A@25℃	22A@25℃
Maximum Continuous Discharging Current	60A	60A
Cycle Life	1200@≥80%	1200@≥80%
Endurance	100km	120km
Ingress Protection Rating	IP67	IP67

### | Application

