

MPL 24V60 HBT Rechargeable Lithium Iron Phosphate Battery



LiFePO₄

PRODUCT FEATURES



• Super Safe Lithium Iron Phosphate Chemistry.

• **High Performance and Durability:** Offers significantly longer cycle life compared to traditional lead-acid batteries, ensuring reliable performance in a wide temperature range from -20°C to 60°C.

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• Faster Charging and Lower Self-Discharge: Outperforms lead-acid batteries in both areas.



• **Compact and Lightweight:** High energy density in a small, lightweight design, ideal for space and weight-sensitive applications.



• Long Lifespan: Over 15 years of stable, maintenance free performance.



• Unique Built-In BMS: Monitors and controls battery parameters, providing protection against over-charging, over-discharging, over-current, and short circuits.



• **CANBus communication:** Offers real time monitoring, diagnostics, and seamless communication with other system components.



• **Bluetooth Connectivity:** Displays the battery's state of charge (SOC) and operating status.



• **Heat Shield:** Ensures reliable performance in low-temperature environments.

FUNCTIONAL SPECIFICATIONS

Cell Chemistry :
Cell Type :
Nominal Voltage:
Nominal Capacity :
Stored Energy:1536 Wh
Internal Resistance :
Self Discharge per Month :
Cycle life (a) 100% DOD :
Series Connection :Single Use
Parallel Connection :
Combination Mode:
Communication Interface : CANBus, Bluetooth

MECHANICAL SPECIFICATIONS

Dimensions (L *W * H) :
Weight:16.26±0.2 Kg
Terminal Type :
Case Material :
Ingress Protection Marking :

CHARGE SPECIFICATIONS

Recommended Charge Voltage : ≤29.2V
Recommended Charge Current : ≤12A(0.2C)**
Max. Charge Current :
Over Voltage Protection :
Reconnect Voltage :
Primary Charge Current Protection : 65±5A/5s

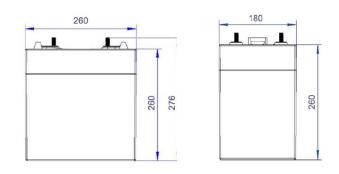
DISCHARGE SPECIFICATIONS

Recommend Discharge Current : $\ldots \ldots \le 12A(0.2C)^{**}$
Max. Discharge Current : 100A/200A<5s
Max. Discharge Voltage :
Low Voltage Protection :
Reconnect Voltage :
Primary Discharging Current Protection : 200±10A/15s
Short Circuit Protection :

ENVIRONMENTAL SPECIFICATIONS

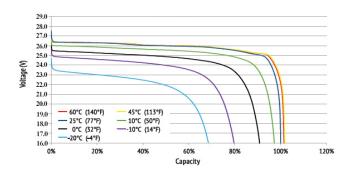
Charge Temperature :
Discharge Temperature :
Storage Temperature :Less than 1 year: 0~25°C
Less than 3 months :-5~35°C
Optimal Operation Humidity : 60±25%RH/Non-Condense

OUTLINE DIMENSION



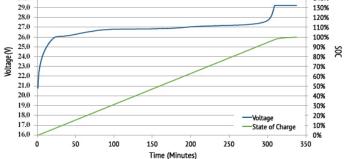
*Refer to warranty terms for cycle life performance conditions ** C=Capacity

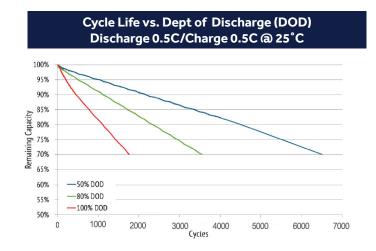
Discharge Performance at Various Temperatures Discharge 1C



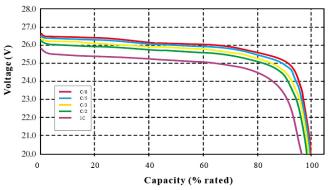


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APPLICATIONS



- Renewable Energy Storage
- Recreational Vehicles (RVs)
- Small Electric Vehicles (EVs)
- Backup Power Systems
- Portable Power Packs
- Emergency Lighting and Equipment
- Marine Applications
- Medical Devices
- Remote Monitoring and Telemetry

CERTIFICATIONS

• UN38.3

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SHIPPING CLASSIFICATION

- UN 3480
- Class 9