

LFP 12.8V15 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.



• 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: Delivers stable, maintenance-free performance over an extended period.

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



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



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

FUNCTIONAL SPECIFICATIONS

Cell Chemistry :
Cell Type :
Nominal Voltage :
Nominal Capacity :
Stored Energy: 192Wh
$Internal Resistance: \dots < 30 m\Omega$
Self-Discharge per Month:
Cycle life (a) 80% DOD :
Series Connection :
Parallel Connection :
Combination Mode: 4S3P(3.2V,5Ah)
Communication Interface : Bluetooth

MECHANICAL SPECIFICATIONS

Dimensions (L*W*H/TH) :	.151*98*96/100 mm
Weight:	1.5±0.2 Kg
Terminal Type :	F2
Case Material :	ABS
Ingress Protection Marking :	IP65

CHARGE SPECIFICATIONS

Recommended Charge Voltage :
Recommended Charge Current :≤4A (0.25C)**
Max. Charge Current :
Over Voltage Protection :14.6±0.2V
Reconnect Voltage :
Primary Charge Current Protection :

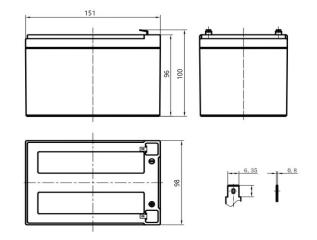
DISCHARGE SPECIFICATIONS

Recommend Discharge Current : ≤7.5A (0.5C)**	
Max. Discharge Current :	
Max. Discharge Voltage :	
Low Voltage Protection :	
Reconnect Voltage :	
Primary Discharging Current Protection : 75±5A/1±0.2s	
Short Circuit Protection :	

ENVIRONMENTAL SPECIFICATIONS

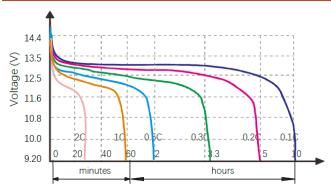
Charge Temperature :	
Discharge Temperature :	
Storage Temperature :10~40°C	
Optimal Operation Humidity : 5~95% RH/Non-condense	

OUTLINE DIMENSION



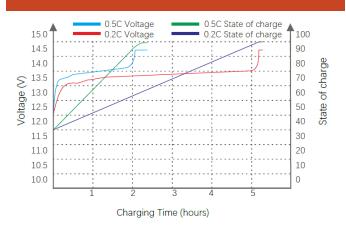
*Refer to warranty terms for cycle life performance conditions ** C=Capacity

Discharge Performance (25°C)

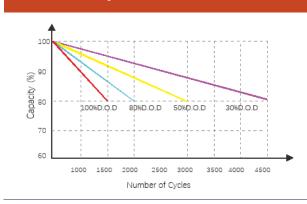


Discharge time

State of Charge Curve (25°C)



Cycle life _Cell (1C)(25°C)

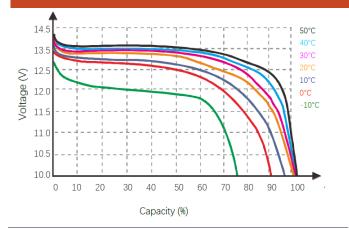


APPLICATIONS

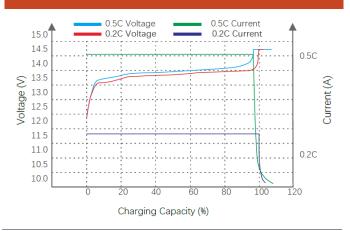


- Renewable Energy Storage
- Recreational Vehicles (RVs)
- Small Electric Vehicles (EVs)
- Backup Power Systems
- Portable Power Packs
- Emergency Lighting and Equipment
- Marine Applications
- Remote Monitoring and Telemetry

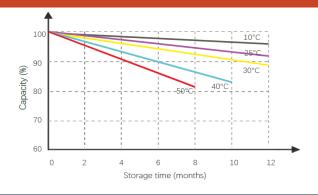
Temperature Impact on Discharge Performance (0.5C)



Charge Characteristics (25°C)



Self-Discharge Characteristics



CERTIFICATIONS

- UN38.3
- CE
- RoHS

SHIPPING CLASSIFICATION

- •UN 3480
- Class 9