

LFP 12.8V100 HBT Rechargeable Lithium Iron Phosphate Battery



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: Over 15 years of stable, maintenance free performance.





• **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: 1280Wh
$\label{eq:linear} Internal Resistance: \ldots \ldots \ldots \ldots \ldots \ldots \le 15 m \Omega$
Self-Discharge per Month:
Cycle life (a) 80% DOD :
Series Connection : 4 Units
Parallel Connection :
Combination Mode:4S1P(3.2V, 100Ah)
Communication Interface : Bluetooth

MECHANICAL SPECIFICATIONS

Dimensions (L*W*H/TH) :	260*170*212/213 mm
Weight:	
Terminal Type :	
Case Material :	ABS
Ingress Protection Marking :	

CHARGE SPECIFICATIONS

Recommended Charge Voltage :
Recommended Charge Current : ≤25A(0.25C)**
Max. Charge Current :
Over Voltage Protection :
Reconnect Voltage :
Primary Charge Current Protection : 130A±5A/10±5S

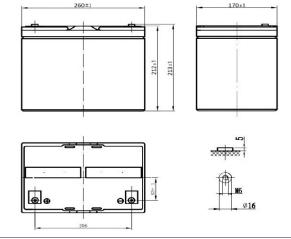
DISCHARGE SPECIFICATIONS

Recommend Discharge Current : ≤50A(0.5C)**
Max. Discharge Current : \leq 100A/320A,2S
Max. Discharge Voltage :
Low Voltage Protection :
Reconnect Voltage :
Primary Discharging Current Protection : 130A±5A/10±3S
Short Circuit Protection :

ENVIRONMENTAL SPECIFICATIONS

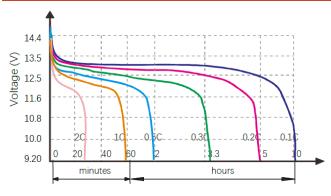
Charge Temperature :
Discharge Temperature :
Storage Temperature :
Optimal Operation Humidity: 5~95% RH/Non-condense

OUTLINE DIMENSION



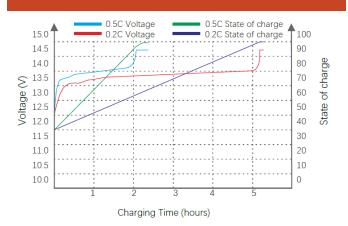
*Refer to warranty terms for cycle life performance conditions ** C=Capacity

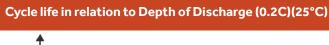
Discharge Performance (25°C)

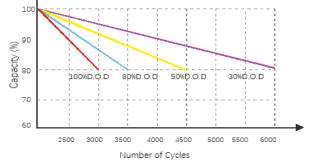


Discharge time

State of Charge Curve (25°C)





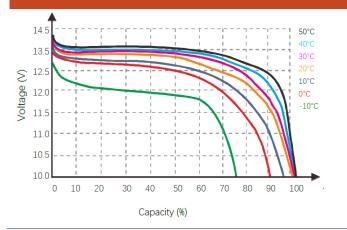


APPLICATIONS

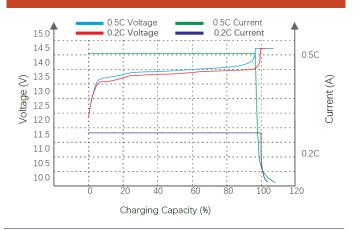


- Renewable Energy Storage
- Recreational Vehicles (RVs)
- Small Electric Vehicles (EVs)
- Backup Power Systems
- Portable Power Packs
- Emergency Lighting and Equipment
- Marine Applications
- Remote Monitoring and Telemetry

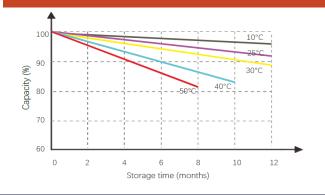
Temperature Impact on Discharge Performance (0.5C)



Charge Characteristics (25°C)



Self-Discharge Characteristics



CERTIFICATIONS

- UN38.3
- CE
- IEC62619
- IEC 62368
- IEC 62620
- RoHS

SHIPPING CLASSIFICATION

- •UN 3480
- Class 9