

LIFE 48-24

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.



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



• Long Lifespan: Delivers extended stable, maintenance-free performance



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

FUNCTIONAL SPECIFICATIONS

MECHANICAL SPECIFICATIONS

Dimensions (L*W*H/TH):	227*162*251/257mm
Weight:	12.5±0.3Kg
Terminal Type:	
Case Material:	Metal
Ingress Protection Marking:	IP54

CHARGE SPECIFICATIONS

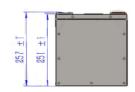
Recommended Charge Voltage : ≤29.2V
Recommended Charge Current: 9.6A
Max. Charge Current:≤30A
Over Voltage Protection:
Reconnect Voltage:
Primary Charge Current Protection:NA

DISCHARGE SPECIFICATIONS

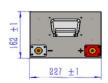
ENVIRONMENTAL SPECIFICATIONS

Charge Temperature:0~45°C
Discharge Temperature :20~60°C
Storage Temperature : 0~40°C
Optimal Operation Humidity: 5~95%RH/Non-Condense

OUTLINE DIMENSION



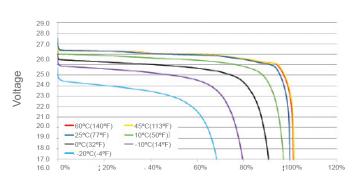




 $[\]hbox{*Refer to warranty terms for cycle life performance conditions}$

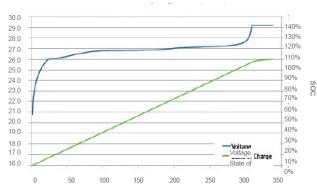
^{**} C=Capacity

Discharge Performance at Various Temperatures Discharge 1C

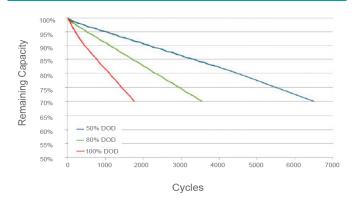


Capacity

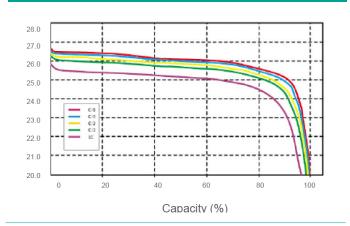
Charge Performance Charge 0.2C @ 25°C



Cycle Life vs. Dept of Discharge (DOD) Discharge 0.5C/Charge 0.5C @ 25°C



Discharge Voltage Profile at Various Rate @ 25°C



APPLICATIONS











•Telecom and Data Centers

- Energy Storage Systems
- Uninterruptible Power Supply (UPS)
- Remote Power Supply
- Industrial Applications

CERTIFICATIONS

• UN38.3

SHIPPING CLASSIFICATION

- UN 3480
- Class 9