

LIFE 200–48S Rechargeable Lithium Iron Phosphate Battery

# LiFePO<sub>4</sub>



## **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.



• Smart Design: Anti-theft protection and support constant voltage (57V) discharge for remote power supply, reduced line loss, no need for thick wires, and 100% discharge capability.



• **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 & Bidirectional DCDC: Monitors and controls battery parameters, protecting against over-charging, over-discharging, over-current, and short circuits, supporting mixed battery use.



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

### **FUNCTIONAL SPECIFICATIONS**

Cell Chemistry :
Cell Type :
Nominal Voltage :
Nominal Capacity :
Stored Energy: 9600Wh
$Internal Resistance: \ldots \ldots \ldots \ldots \ldots \ldots \le 40 m \Omega$
Self-Discharge per Month:
Cycle life (a) 80% DoD:
Series Connection :Single Use
Parallel Connection :
Combination Mode: 15S2P
Communication Interface : CANBus/ RS485

#### **MECHANICAL SPECIFICATIONS**

Dimensions (L*W*H): 442*480*221mm
Weight:
Terminal Type :
Case Material: Steel
Ingress Protection Marking :

#### **CHARGE SPECIFICATIONS**

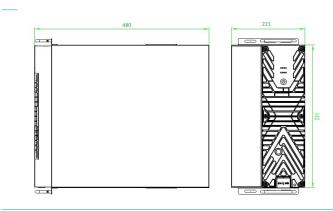
Operation Charge Voltage:
Recommended Charge Voltage :
Recommended Charge Current : ≤50A(0.5C)**
Max. Charge Current :
Over Voltage Protection(Battery Pack) :
Over Voltage Protection(DC-DC Mode): 60±0.5V
Reconnect Voltage :
Primary Charge Current Protection :

#### DISCHARGE SPECIFICATIONS (Battery Pack)

Decomposed Discharge Comparts (COM/0.25C)**
Recommend Discharge Current : $\ldots \le 50A(0.25C)^{**}$
Max. Discharge Current : $\leq$ 100A
Max. Discharge Voltage :
Low Voltage Protection :
Reconnect Voltage:
Primary Discharging Current Protection : 125±3A/15s
Short Circuit Protection :

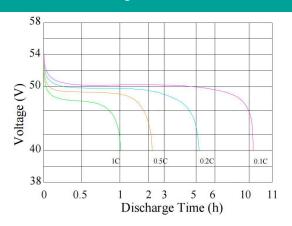
#### **ENVIRONMENTAL SPECIFICATIONS**

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

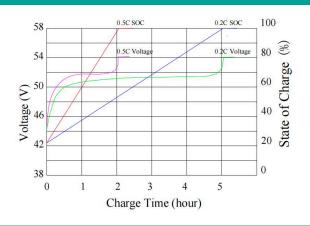


\*Refer to warranty terms for cycle life performance conditions \*\* C=Capacity

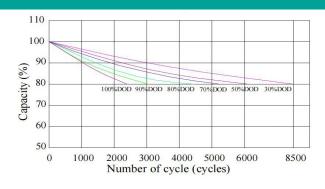
**Discharge Performance** 



State of Charge (25°C)



Cycle life in relation to Depth of Discharge

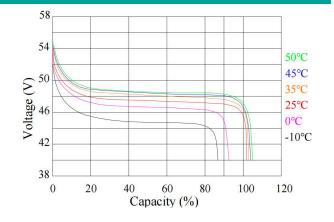


**APPLICATIONS** 

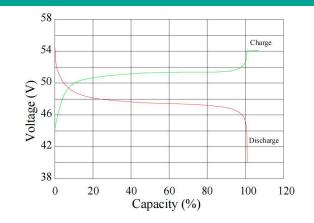


- •Telecom and Data Centers
- Energy Storage Systems
- Uninterruptible Power Supply (UPS)
- Remote Power Supply
- Industrial Applications

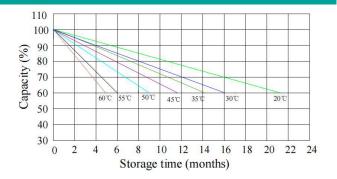
**Temperature effect on Discharging** 



#### **Discharge and Charge Performance**



**Self-Discharge Characteristics** 



#### CERTIFICATIONS

• UN38.3

#### SHIPPING CLASSIFICATION

- •UN 3480
- Class 9