



LIFE 10-48

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.



• **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.



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

FUNCTIONAL SPECIFICATIONS

Cell Chemistry :	LiFePO ₄
Cell Type :	Prismatic
Nominal Voltage :	48V
Nominal Capacity :	10Ah
Stored Energy :	480Wh
Internal Resistance :	≤15 mΩ
Self Discharge per Month :	<5%
Cycle life @ 80% DoD :	4000 Cycles*
Series Connection :	Single Use
Parallel Connection :	≤16 Units
Combination Mode :	15S1P(3.2V, 10Ah)
Communication Interface :	RS485

MECHANICAL SPECIFICATIONS

Dimensions (L *W * H) :	442*285*44 mm
Weight :	8±0.2Kg
Terminal Type :M6
Case Material :	Steel
Ingress Protection Marking :	IP20

CHARGE SPECIFICATIONS

Recommended Charge Voltage :	≤54V
Recommended Charge Current :	≤5A(0.5C)**
Max. Charge Current :	≤ 10A
Over Voltage Protection :	56±0.5V
Reconnect Voltage :	54V
Primary Charge Current Protection :	10A

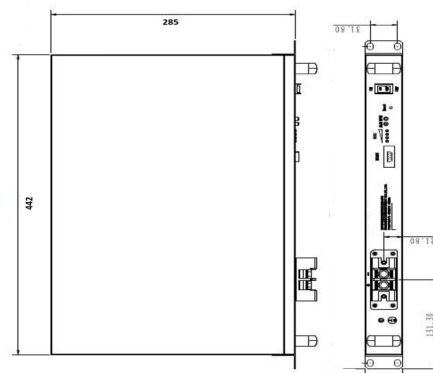
DISCHARGE SPECIFICATIONS

Recommend Discharge Current :	≤ 5A(0.5C)**
Max. Discharge Current :	≤ 10A
Max. Discharge Voltage :	≥43.2V
Low Voltage Protection :	42V
Reconnect Voltage :	44V
Primary Discharging Current Protection :	12±2A/30s
Short Circuit Protection :	100A/1ms

ENVIRONMENTAL SPECIFICATIONS

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

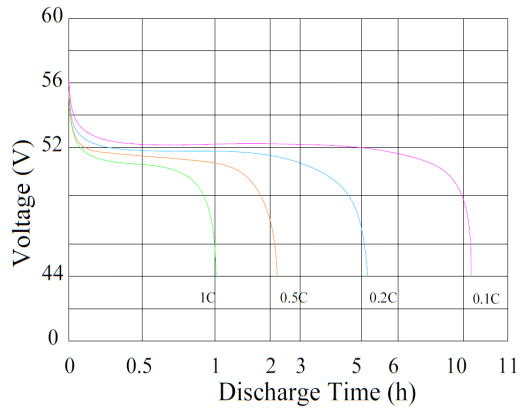
OUTLINE DIMENSION



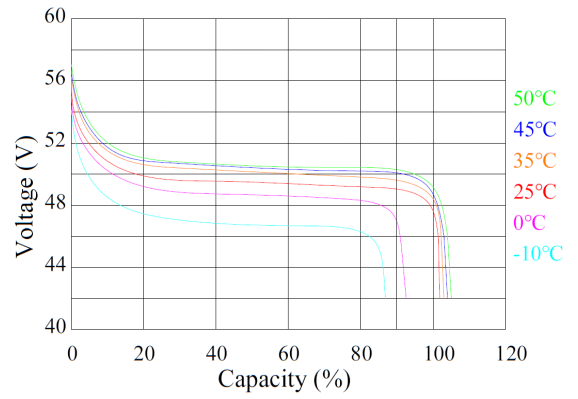
*Refer to warranty terms for cycle life performance conditions

** C=Capacity

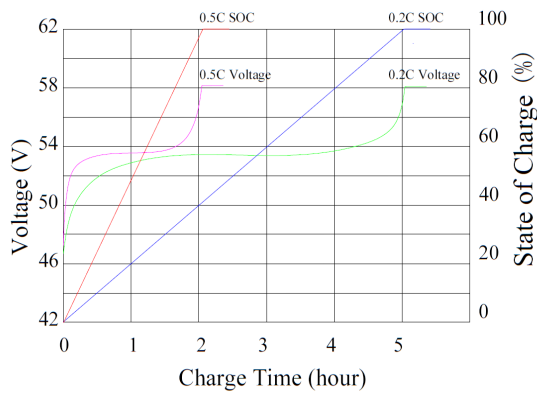
Discharge Performance



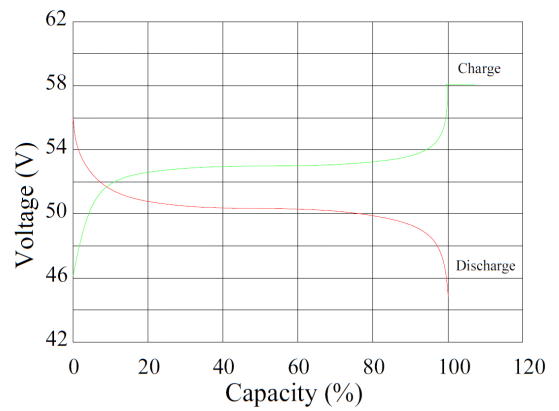
Temperature effect on Discharging



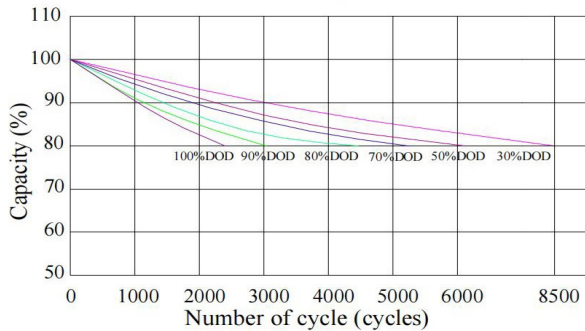
State of Charge (25°C)



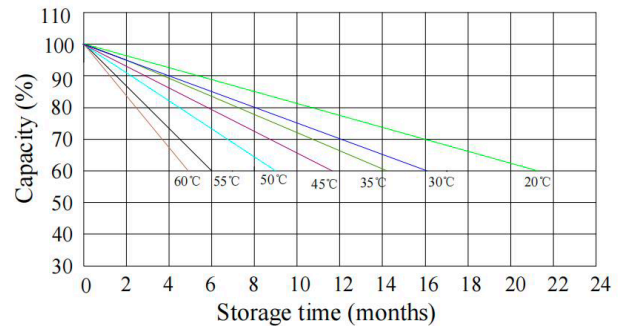
Discharge and Charge Performance



Cycle life in relation to Depth of Discharge (0.2C)



Self-Discharge Characteristics



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