

210AH 24V LiFePO4 Battery

Technology

Lithium Iron Phosphate (LiFePO4)	
Nominal Voltage	25.6V
Rated Capacity	100Ah
Charge Method	CC/CV
Charge Voltage	29.2V
Bulk/Absorption Voltage	29.2V
BMS Balancing Voltage	Any cell voltage $\geq 3.45V$ Max Voltage difference between cells $> 30mV$ In Charging
Equalize Voltage	Not applicable
Float Voltage *	Not applicable
Temperature Compensation	No/Disable
Charge Cut-off Voltage	29.2V
Discharge Cut-off Voltage	20V
Recommended Charge Current	100A
Recommended Discharge Current	100A
Maximum Continuous Charge Current	200A
Maximum Continuous Discharge Current	200A
Peak Current	2500A
WiFi	No
Bluetooth	No
Communication	No
Self Heating	No
Protection Rating	IP65
BMS Protection	<ul style="list-style-type: none"> • Over and Low voltage • Charge and Discharge Over current • Short circuit • High and Low temperature
Internal Resistance	$\leq 15m\Omega$
BMS Leakage Current	$\leq 10mA$
Charge Temperature Range	32°F (0°C) to 131°F (55°C)
Discharge Temperature Range	-4°F (-20°C) to 131°F (55°C)
Storage Temperature 1 week	-4(-20°C) to 149°F (65°C)
Storage Temperature 1 month	-4°F (-20°C) to 113°F(40°C)
Storage Temperature 1 year	-4°F (-20°C) to 77°F (25°C)
Humidity Operating:	5% to 90 % RH
Humidity Storage:	35% to 85% RH
Certifications: MSDS; UN38.3; CE; PSE	
Cycle Life	4000 cycles

FEATURES:

- **Dual Purpose**
- **Storage Battery**
- **Cranking Battery - 2500A**

- **Smart BMS(Battery Management System)**
Built-in BMS to protect the battery from overcharge, over temperature, over discharge, over current, low temperature and short circuit.

- **Superior Thermal Stability & Safety**
LiFePO4 chemistry resists thermal runaway and combustion risks, even under extreme conditions, ensuring unmatched operational safety for high-stress environments.

- **Extended Cycle Life**
With over 3,000-5,000 charge-discharge cycles (80% capacity retention), these batteries deliver long-term reliability, drastically reducing replacement frequency and lifecycle costs.

- **High Energy Density**
Compact and lightweight design maximizes energy storage capacity per unit, ideal for space-constrained applications

- **Eco-Friendly Composition**
Free from toxic heavy metals (e.g., cobalt, lead), LiFePO4 batteries align with global sustainability standards (RoHS compliant) and enable easier recycling.

- **Low Self-Discharge Rate**
Minimizing energy waste and ensuring readiness for seasonal or emergency use.

- **Wide Temperature Tolerance**
Performs reliably in extreme climates (-20°C to 55°C / -4°F to 131°F), making it adaptable for outdoor solar storage, marine, and automotive applications.

- **Maintenance-Free Operation**
No memory effect or routine upkeep required, reducing user intervention and total ownership costs.

-Max connected in series and parallel **4 PCs**-

Max connected
in Parallel
4 units

Max connected
in Series
2 units

Unit Dimensions



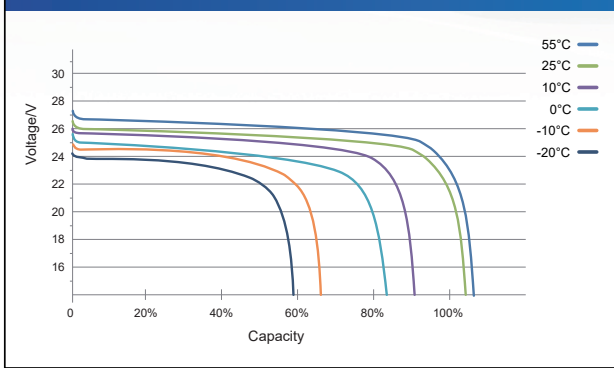
Mechanical

Length	20.6in / 523mm
Width	17.4in / 443mm
Height	7.6in / 194mm
Weight	103lbs / 46.7kg
Terminals Diameter	18mm

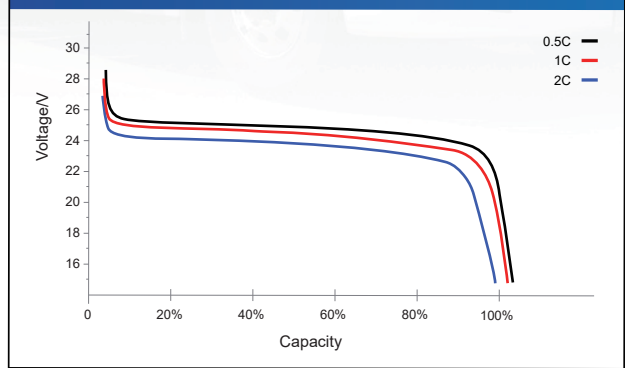
Materials

Case and Cover	METAL
Color	BLACK

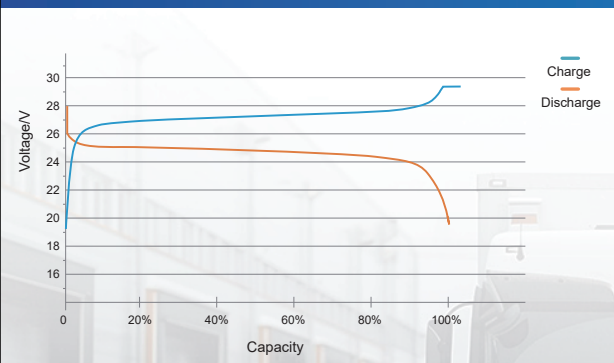
Discharge Characteristics At Various Temperatures



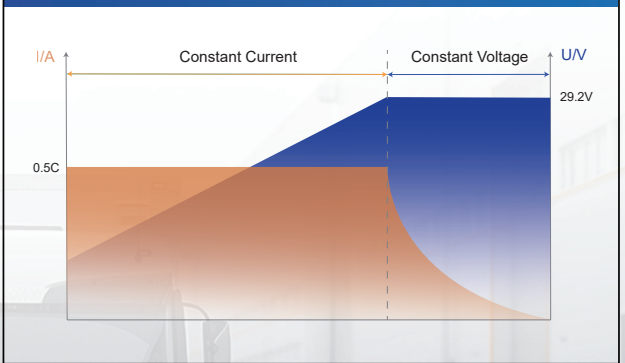
Discharge Characteristics At Various Rates



Charge & Discharge Voltage Characteristics



LiFePO4 Battery Charging Logic @0.5C



PLEASE NOTE

- ★ Lithium batteries ship under Class 9 Dangerous Goods PI 965 Section IA. Please contact your carrier company to determine their requirements for shipping. MSDS Sheets are available upon request.
- ★ Float charging is not applicable to lithium iron phosphate batteries, long-term float charging will accelerate battery aging or damage. If you have to set the float voltage for MPPT/PWM charge controller in solar system, we suggest to set it to (12V Battery)13.2V-13.6V, (24V Battery)26.4V-27.2V, (36V Battery)39.6V-40.8V, (48V Battery)52.8V-54.4V.