

100AH 36V LiFePO4 Battery



FEATURES:

- 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.

Technology

Lithium Iron Phosphate (LiFePO4)	
Nominal Voltage	38.4V
Rated Capacity	100AH
Charge Method	CC/CV
Charge Voltage	43.8V
Bulk/Absorption Voltage	43.8V
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	43.8V
Discharge Cut-off Voltage	30V
Recommended Charge Current	50A
Recommended Discharge Current	50A
Maximum Continuous Charge Current	150A
Maximum Continuous Discharge Current	150A
Peak Current	250A/30s 500A/1s
WiFi	No
Bluetooth	Yes
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	$\leq 20m\Omega$
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

Max Connected
IN Parallel
2 Units

Max Connected
IN Series
1 Units

Unit Dimensions

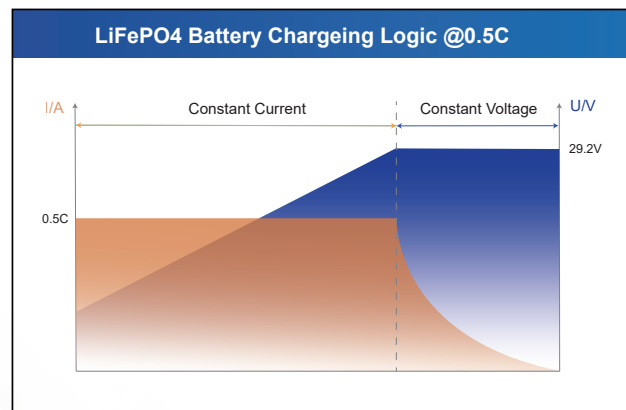
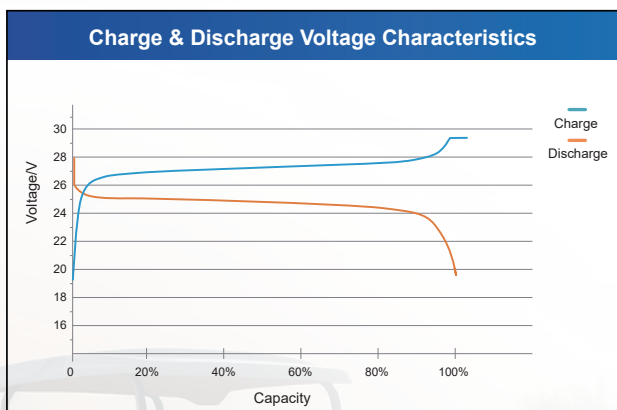
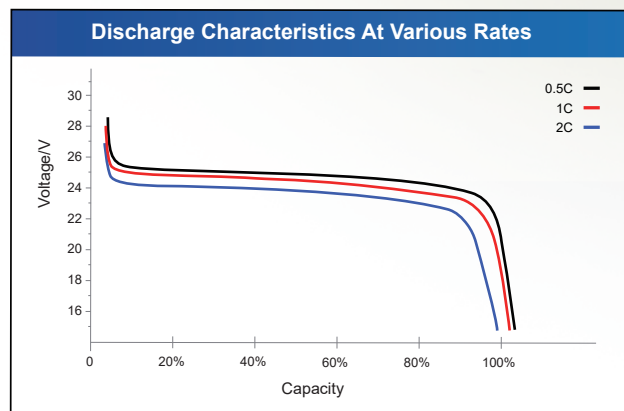
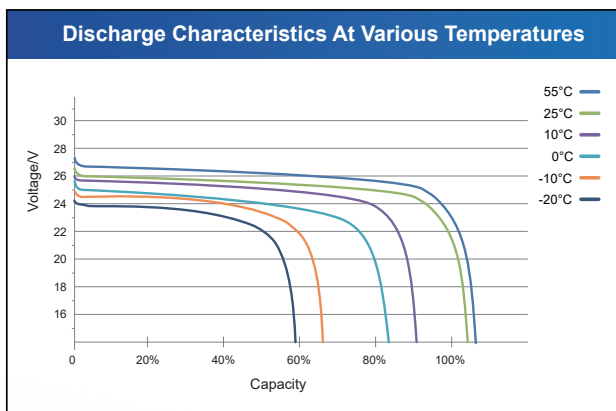


Mechanical

Length	20.47 in / 520 mm
Width	10.55 in / 268 mm
Height	8.62 in / 219 mm
Weight	68.34 lbs / 31 kg
Terminals	M8 insert

Materials

Case and Cover	ABS
Color	BLACK



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.