



# Model BB10012

100AH 12V  
LiFePO<sub>4</sub> Deep Cycle Battery

## Data sheet

### Electrical Specification

Voltage	12V
Capacity	100AH
Operating Temperature	- 4°F (-20°C) to 135°F (57.2°C)
Efficiency	99%
Self Discharge	2-3% per month
Maximum Series Voltage	48V
Cycles	3K-5K
Built-in BMS	Internal
Resistance	7 mΩ
Usable DoD	100%

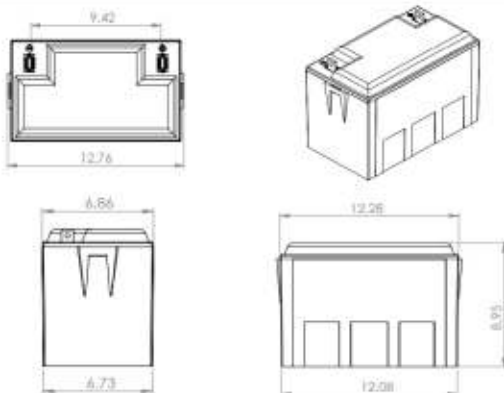
### Discharging Specification

Max Discharge Current	100A
Peak Discharge Current	200A for 30 Seconds
Surge for Loads over 500A	.5 Seconds
Recommended LVD	10.5V
BMS Discharge Voltage Cut-Off	10V
Reconnect Voltage	10V
Short Circuit Protection	Yes

### Recognized Specification

Certifications	UN38.3, UL/CSA-62133-2, UL-2054
Shipping Class	UN3480, Class 9

### Drawing Specification



### Charging Specification

Recommended Charge Current	.5c
Max Charge Current	50A
Absorption Voltage	14.2V-14.6V
Float Voltage	13.4V-13.8V
Equalization Voltage (if applicable)	14.4V
Absorption Time	30 Minutes per 100AH battery bank
BMS Charge Current Cut-Off	.5C Recommended
Recharge/Rebulk Voltage	13.3V
BMS Cell Balancing Voltage Range	14.2V-14.6V
High BMS Voltage Protection	14.7VDC
Temperature Compensation	No/Disable

### Mechanical Specification

Dimensions	12.76"L X 6.86"W X 8.95"H
Weight	31 lbs.
Terminal Type	.25" Brass
Terminal Hole	3/8" hole and 3/8" or 5/16" hardware is suggested
Terminal Torque	9-11 Ft-lb.
Case Material	ABS Fire Rated
Cell Type - Electrolyte	LiFeP04
Sealed and Water Resistant Case	Non-Submersible

### Temperature Specification

Discharge Temperature	-4°F to 135°F (-20°C to 57.2°C)
Charge Temperature	25°F - 135°F
Storage Temperature	-10°F to 140°F (-23°C to 60°C)
BMS High Temperature Cut-Off	>135°F
BMS Reconnect Temperature	<135°F

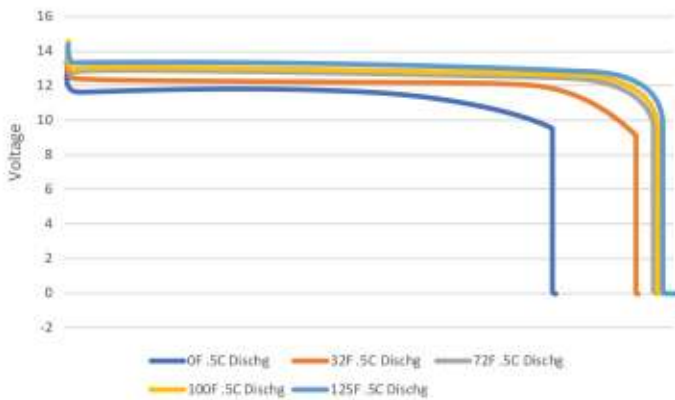


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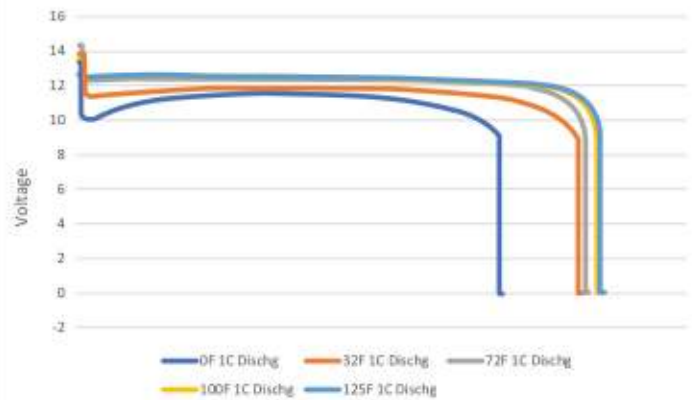
100AH 12V  
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**Data sheet**

## Performed Operation Data

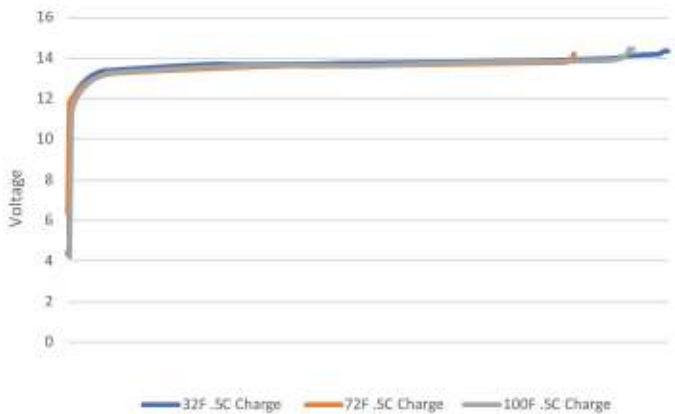
### .5C Discharge with Temperature Variations



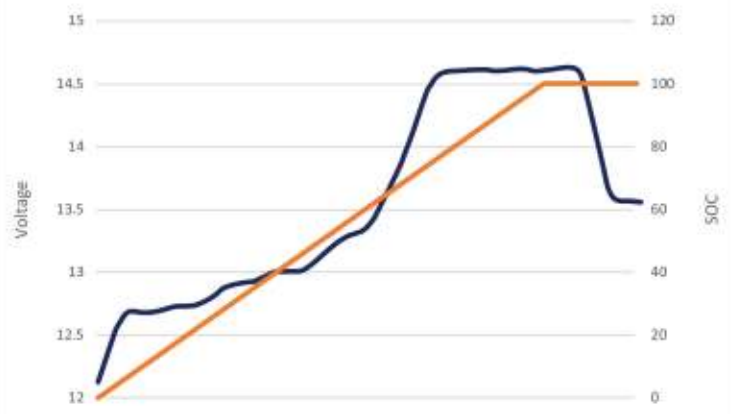
### 1C Discharge Voltage with Temperature Variations



### .5C State of Charge with Temperature Variations



### Standard Charge Curve with 3 Stage Charger



\*Note: The storage temperature range is -10°F to 140°F (-23°C to 60°C). We recommend bringing the Battle Born Batteries to a 100% charge and then disconnecting them completely for storage. After six months in storage, your batteries will remain 75 - 80% charged.

Storing batteries in subzero weather (-15°F or more) has the potential to crack the ABS plastic and more importantly could cause a faster loss of capacity, in some cases drastically more than the typical 2 - 4% per month loss.