

Model BBGC2H

100AH 12V LiFePO₄ 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	12 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	
10.79 9.39 • • • • • • • • • • • • • • • • • • •	6.44 3.75 9 10.24 Screw arrance

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	10.31"L X 7.28"W X 11.02"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	
Heat	Proprietary Internal Heating Solution	
Heat Enable Terminal	Female M4 Thread	

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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