

Model BBGC2H

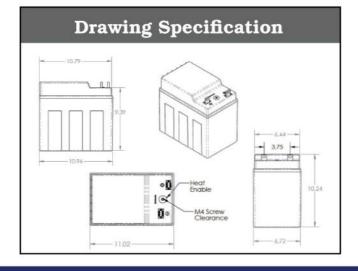
100AH 12V LiFePO4 Deep Cycle Battery

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 IP65 - ANSI/IEC 60529-2020, CSA 60529:16 (R2021)	
Shipping Class	UN3480, Class 9	



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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Performed Operation Data .5C Discharge with Temperature Variations 1C Discharge Voltage with Temperature Variations OF .5C Dischg 32F .5C Dischg 72F .5C Dischg -100F 1C Dischg -125F 1C Dischg Standard Charge Curve with 3 Stage Charger .5C State of Charge with Temperature Variations Voltage 32F .5C Charge 72F .5C Charge 100F .5C Charge >32°F 30°F 24 Hr Period 25°F 24 Hr Period <20°F GC2 Heater Draw Expected in a 24Hr Period 48Ah 25Ah Consumed 32Ah Consumed Ah Ah Expected (24 Hr Period) Temperature OFF Total Cycle Time Ah One Cycle 8.58 4.15 12.72

*Note: The storage temperature range is -10°F to 140°F (-23°C to 60°C). We recommend bringing the Dragonfly Energy 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.