



Model BBGC3

270AH 12V LiFePO₄ Deep Cycle Battery **Data sheet**

Electrical Specification		
Voltage	12V	
Capacity	270AH	
Operating Temperature	- 4°F to 135°F	
	(-20°C to 57.2°C)	
Efficiency	99%	
Self Discharge	2-3% per month	
Maximum Series Voltage	48V	
Cycles	3K-5K	
Built-in BMS	Internal	
Resistance	5 mΩ	
Usable DoD	100%	

Discharging Specification		
Max Discharge Current	300A	
Peak Discharge Current	500A 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	
Shipping Class	UN3480, Class 9	

Drawing Specification		
Removable Feet Strap Feeture Removable Feet 7. lin 7. lin		

Charging Specification		
Recommended Charge Current	.5c	
Max Charge Current	135A	
Absorption Voltage	14.2V-14.6V	
Float Voltage	13.4V-13.8V	
Equalization Voltage (if applicable)	14.4V	
	100 Minutes	
Absorption Time	per 270AH	
	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	22.83"L X 7.09"W	
	X 13.15"H	
Weight	80.8 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	Non-Submersible	
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	

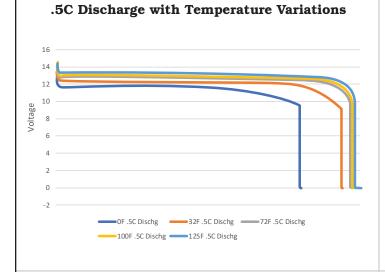




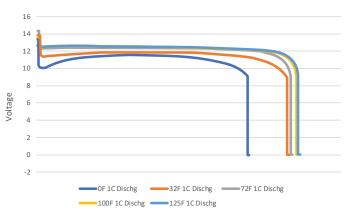
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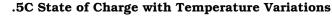
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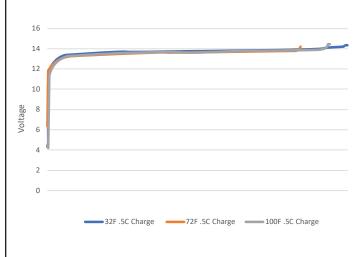
Performed Operation Data



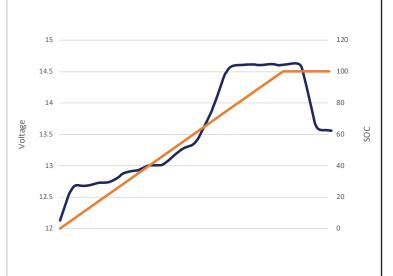
1C Discharge Voltage with Temperature Variations







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° C charge and then disconnecting them completely for storage. After six months in storage, your batteries will remain $75-80^{\circ}$ C 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.