



270 Amp Hour 12 Volt Smart LiFePO₄ Deep Cycle Battery

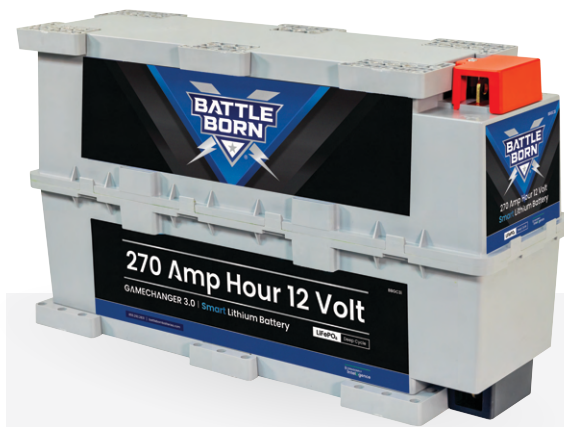
Model: BBGC3i

Features

- Premium Grade Cylindrical Cells
- Safe & Non-Toxic LiFePO₄ Chemistry
- Smart Battery Communication Technology
- Optional Integrated Heating (Model: BBGC3iH)

Performance & Versatility

- Series and/or Parallel Connection
- Wire in Series up to 48V
- No Limit When Wiring in Parallel
- Mount in Any Orientation
- 100% Depth of Discharge
- 3,000-5,000 Deep Discharge Cycles



Third-Party Tested and Certified to Comply with Applicable Industry Safety Standards

Internal BMS

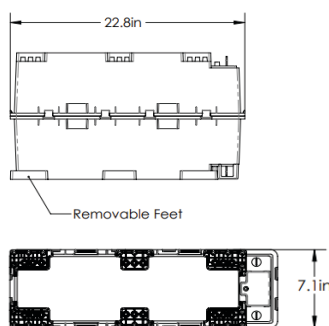
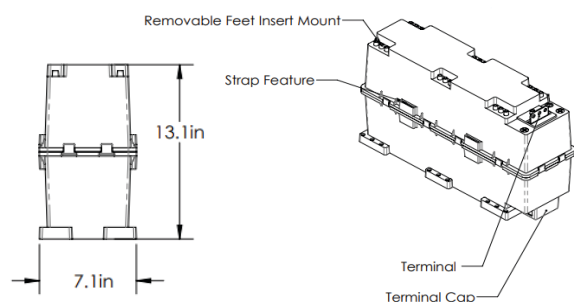
Proprietary battery management system (BMS) ensures user safety and product protection.

- High/Low Voltage Protection
- Short Circuit Protection
- High/Low Temperature Protection
- Cold Charging Protection (Low-Temp Cutoff)
- Automatic Cell Balancing at Top of Charge

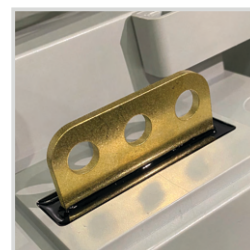
300 Amps Continuous | 500 Amps Surge for 30 Seconds | 1/2 Second Surge for Loads over 500 Amps

*Note: This built-in protection will reset after five seconds in most fault conditions. Disconnecting the battery from loads will also reset the BMS.

Drawing Specifications



Flag Terminals



Contact Information:

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Nevada, 89521

☎ 855-292-2831
✉ info@battlebornbatteries.com

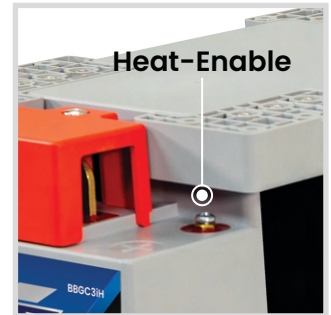
POWERED BY
dragonfly[®]
ENERGY

Optional Integrated Heating Technology

All Smart LiFePO₄ Batteries are available in models with optional Integrated Heating technology, which warms the battery pack's internal cells in cold temperatures.

- Allows for Cold Weather Charging
- Low Continuous Power Draw When Enabled
- Integrated Heating Technology Activated at Internal Temperature of ~35°F (*When Heat Function is Enabled)
- Operating Temperature Range of -4°F to 135°F

INTEGRATED
HEATING



Dragonfly Intelligence® Smart Communication Technology

Dragonfly Intelligence® is the proprietary communication technology inside Battle Born Smart LiFePO₄ Batteries.

- Robust Wireless Mesh Network & Bluetooth® Connectivity
- Quick Setup & Easy Configuration via the Battle Born® Mobile App
- Compatible with RV-C, NMEA 2000 & More (Some Protocols are Coming Soon)
- Remote Monitoring of Individual Batteries or Entire Smart Power System
- Error Detection & Warning Notifications
- Historical Reporting of SOC, Voltage, Performance, System Health & More

DRAGONFLY
Intelligence

Battle Born® Hub

- Connects All Smart Batteries in System
- Receives Wireless Signal from Smart Batteries
- Increases Accessibility to Advanced Communication Features
- Enables Full Power System Monitoring
- Powerful Intermediary Tool for Accessories

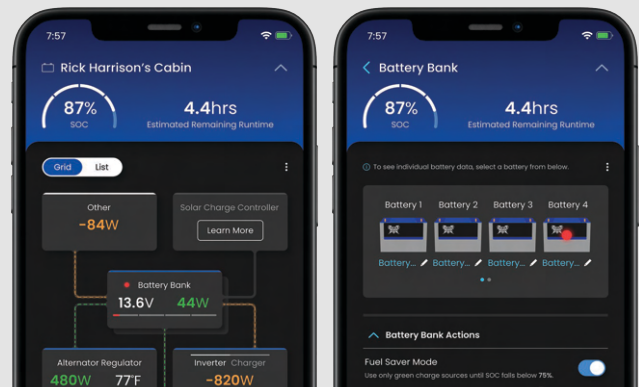
Note: A Battle Born Hub is required for Full System Monitoring and Advanced Features.



Battle Born® Mobile App
Available for iOS and Android.



Designed exclusively for Battle Born **Smart** LiFePO₄ Batteries, the app ensures seamless monitoring and control of your power system.



BBGC3i Technical Specifications

Electrical Specifications

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
Cycle	3K-5K
Built-in BMS	Internal
Resistance	5 mΩ
Usable Depth of Discharge	100%

Discharging Specifications

Max Discharge Current	300A
Peak Discharge Current	500A for 30 Seconds
Surge for Loads Over 500A	.5 Seconds
Recommended Low Voltage Disconnect	10.5V
BMS Discharge Voltage Cut-Off	10V
Reconnect Voltage	10V
Short Circuit Protection	Yes

Recognized Specifications

Battery Cell Certifications	UL Recognized to UL 1642
Battery Pack Certifications	UN38.3 Certified by LabTest to Conform to UL Standard 62133-2 IP65 - ANSI/IEC 60529-2020, CSA 60529:16 (R2021) CE
Shipping Class	UN3480, Class 9

Temperature Specifications

Discharge Temperature	-4°F to 135°F (-20°C to 57.2°C)
Charge Temperature	25°F to 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

Charging Specifications

Recommended Charge Current	.5c
Max Charge Current	135A
Absorption Voltage	14.2V to 14.6V
Float Voltage	13.4V to 13.8V
Equalization Voltage (if applicable)	14.4V
Absorption Time	100 Minutes per 270Ah Battery Bank
BMS Charge Current Cut-Off	.5C Recommended
Recharge/Rebulk Voltage	13.3V
BMS Cell Balancing Voltage Range	14.2V to 14.6V
High BMS Voltage Protection	14.7VDC
Temperature Compensation	No/Disable

Mechanical Specifications

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 to 11 Ft-lb.
Case Material	ABS Fire Rated
Cell Type	Cylindrical
Cell Chemistry	LiFePO4 (Lithium Iron-Phosphate)
Sealed and Water Resistant Case	Non-Submersible

Integrated Heating Specifications (Model BBGC3iH Only)

Heat	Integrated Heating Technology
Heat Enable Terminal	Female M4 Thread
Continuous Power Draw (When Enabled)	28W

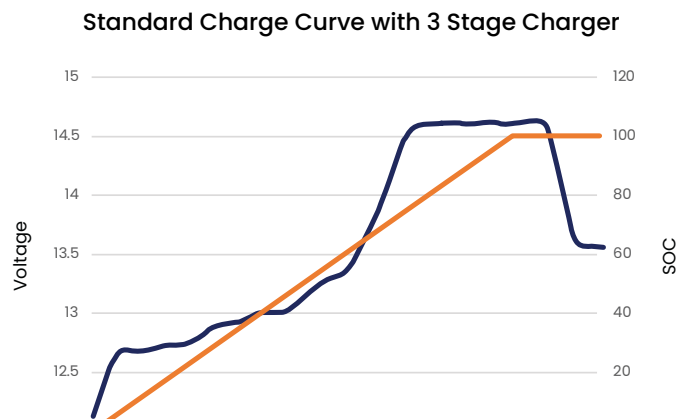
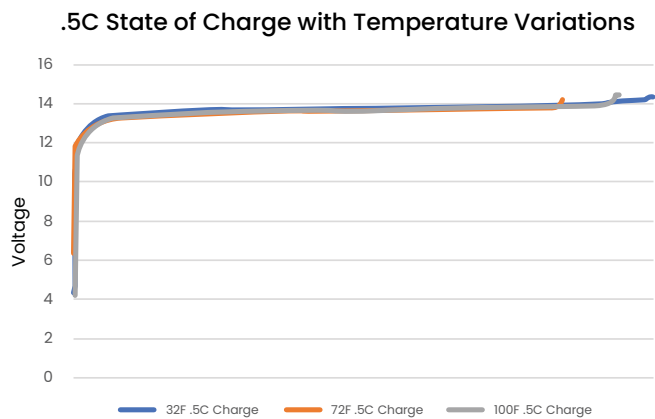
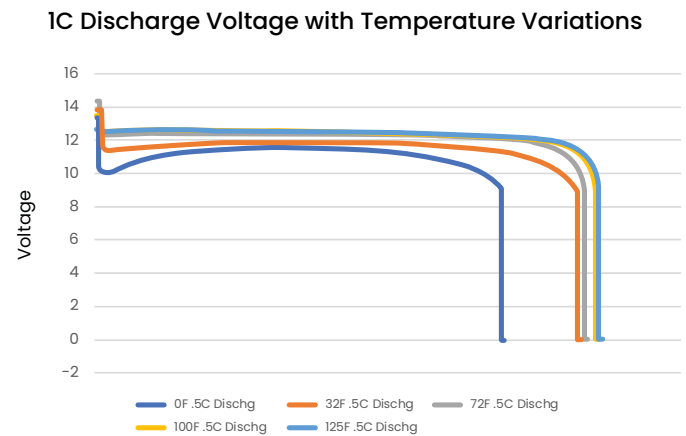
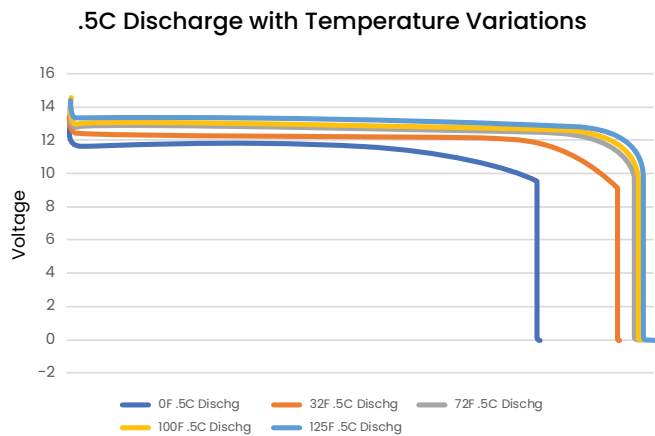
Dragonfly Intelligence® Specifications

Discharge Rate of Built-in Communication	10mA Future Firmware Expected to Result in ~1-3mA
Bluetooth Range	~15m/50ft
Wireless Mesh Network Range (To Smart Battery)	~10m/32ft
Data Transmission Frequency	5 Seconds

*Note: The storage temperature range is -10°F to 140°F (-23°C to 60°C). We recommend bringing the batteries to a 100% charge and then disconnecting them completely for storage. After six months in storage, your batteries will remain 75 to 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 to 4% per month loss.

Performed Operation Data



Performed Operation Data for Heated Batteries

BBGC3iH Integrated Heater Draw Expected in a 24Hr Period

