

BATTERY SPECIFICATIONS

SPECIFICATIONS	
Technology	Lithium Iron Phosphate
Nominal Voltage	12.8 V
Fully Charged Voltage (FC)	14.6V
Fully Discharged Voltage (FD)	9.2V
Capacity (Ah)	300Ah
Recommended Discharge Terminated Voltage	10V
Battery Discharge Terminated Voltage	9.2V
Battery Charge Voltage	14.2V
Max Continuous Charge Current	200A
Heater Function	Battery pack includes heater for heating cell module temperature up when battery pack is charged in a freezing environment
Standard Charge Method	0.5C CC (constant current) charge to FC, then CV (constant voltage FC) charge till charge current decline to $\leq 0.05C$
Inner Resistance	$\leq 10m\Omega$
Certifications	CE, UKCA, UN38.3, UL 2054
Operating Temperature	Charge: -32°F (0°C) to 131°F (55°C) Discharge: -4°F (-20°C) to 131°F (55°C)
Storage Temperature ¹	1 month > 113°F (45°C) to 140°F (60°C) - Max 80% RH 3 months > 77°F (25°C) to 113°F (45°C) - Max 80% RH 6 months > -68°F (20°C) to 77°F (25°C) - Max 80% RH
Humidity	Operating: 5% to 90 % RH Storage: 45% to 85% RH
BMS Leakage Current	20uA in Shutdown Mode
IP Requirement	IP67
Dimensions (LxWxH)	19.6in x 14.9in x 8.66in (498mm x 379mm x 220mm)
Weight	77.2lbs (35kg)

¹77°F (20°C) ± 5 is the recommended storage temperature at 60% State of Charge while being in Power Off mode.



Scan for
full
manual

GP-ADV-LiFePO4-300

ADVANCED LITHIUM BATTERY

Quick Start Guide



NO.	DESCRIPTION
1	Positive Terminal
2	Negative Terminal
3	Power Button (LED)
4	RV-C 1
5	RV-C 2

INCLUDED COMPONENTS

Battery	1	Terminal Cap, Red	1
L Mounting Brackets	4	Terminal Cap, Black	1
PM6*12mm Screw	4	Quick Start Guide	1
M8*18mm Screw	2		

WARNINGS



UK CA CE
UN38.3



Only wire 8 batteries maximum in parallel

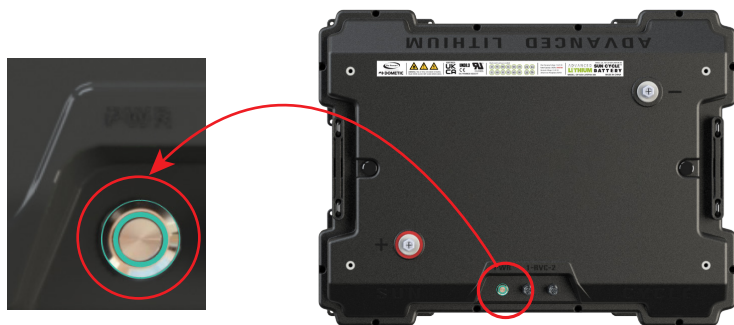
Wire a maximum of 4 in series

Do not get wet

Find tech tips, manuals and support at gopowersolar.com

INTERFACE DESCRIPTION

LED (POWER BUTTON) INDICATORS

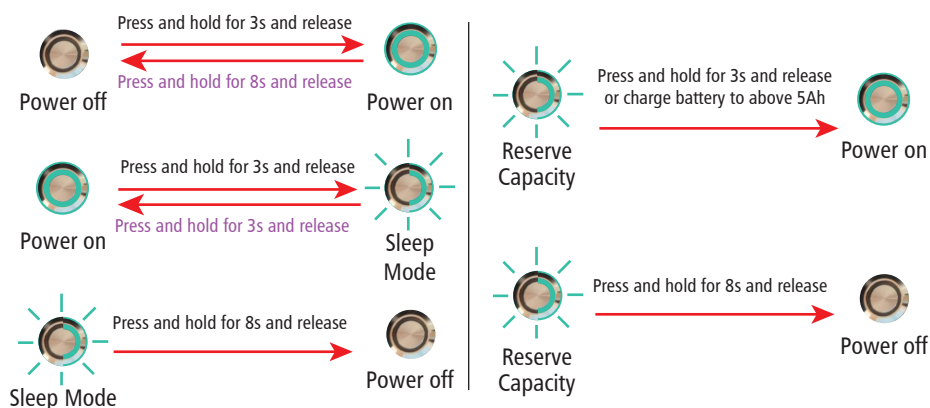


LED	Battery Mode Definition
Solid light	Power on mode
Blinking light	Sleep/Reserve mode
OFF	Power off mode

VARIOUS POWER MODES



Press button for more than 3 seconds and release. The battery will enter sleep mode. The LED will blink. Power off mode should only be used for long term storage or to reset the BMS. Use sleep mode to disable output power of batteries.



MOBILE APP



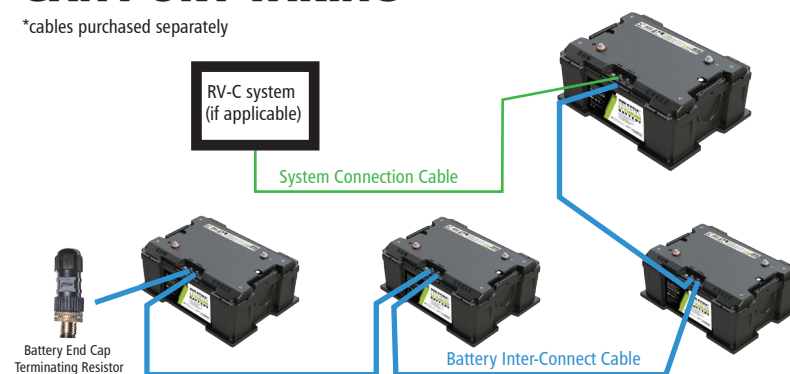
Scan the QR code to download the Go Power! Connect App for use with the Sun Cycle® Advanced Lithium Battery.



SCAN ME

CAN PORT WIRING

*cables purchased separately



Part Number	Function
GP-RVC-BCR – ADV LFP TERMINATOR	Battery End Cap Terminating Resistor
GP-ADV-BC-600 -ADV LFP INTER-BATT HARNESS, 600MM	300Ah Battery Inter-Connect Cable
GP-RVC-BC -ADV LFP RV-C SYSTEM HARNESS	System Connection Cable

HOW TO USE



To prevent a surge current, perform a “pre-discharge” as outlined in the steps below.

- Step 1** - Ensure all batteries are in Power Off mode.
- Step 2** - Connect batteries following the series or parallel connection diagrams found at gopowersolar.com/advanced-lithium-wiring. The Battery Inter-Connect Cable must be installed for each battery pack followed by a Battery End Cap Terminating Resistor cable on the last battery.
- Step 3** - Ensure battery pack terminals are correctly installed and connected to the inverter system.
- Step 4** - Press the power button on one of the battery packs for 3 seconds to wake up all battery packs from Power Off mode. The LED indicator will turn on.

NOTE: Batteries are in Power Off mode when unboxed. Press the Power button for 3 seconds to turn on. If it doesn't turn on, you will need to charge the battery.

The batteries need to be configured before they can be used. Please see battery manual for instructions on battery configuration.