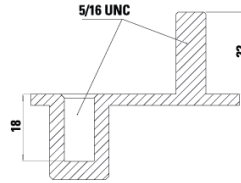
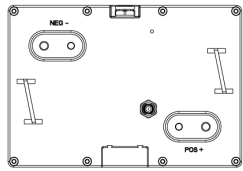
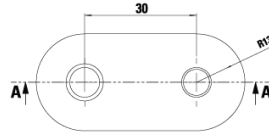
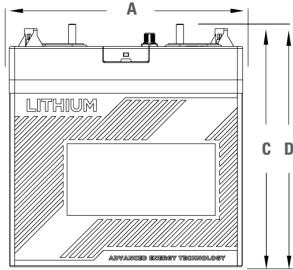




LITHIUM PROFESSIONAL Battery

Discover® LITHIUM PROFESSIONAL LiFePO₄ batteries replace standard BCI 6V, 8V, and 12V GC models. They feature a high-current BMS for peak power, 1C continuous charge/discharge, and COLD CHARGE from -20°C/-4°F. Independently tested for safety and performance, they outperform lead-acid batteries and support continuous Partial State of Charge (PSOC) use without degradation.



SECTION AA

MECHANICAL SPECIFICATIONS

Industry Reference	BCI: GC2	
Length A (in/mm)	10.2	260
Width B (in/mm)	7.1	180
Height C (in/mm)	10.0	254
Total Height D (in/mm)	10.8	275
Weight (lbs/kgs)	30.7	14.0
Terminal *	BM 5/16	
Cell(s)	Prismatic 4S4P	
Case Material	UL94-VO PBT/PC	
IP Rating	67	
Electrolyte	LiFePO ₄	

NOTE 1: Dimensions have a ±2 mm (0.08 in) tolerance. Weights may vary.
NOTE 2: Refer to [terminal guide](#) on website for torque values.

ELECTRICAL SPECIFICATIONS

Open Circuit Voltage (V)	12.8
Charge Voltage (Bulk Vdc)	13.8 - 14.2
Max Absorption Voltage (U1 Vdc)	13.8
Float Voltage (U2 Vdc)	13.6
BMS Max. Voltage protection (Vdc)	14.6 (Approximately)
Suggested Low Voltage Cutoff (Vdc) *	12.0
BMS Min. Voltage protection (Vdc)	10.0 (Approximately)
Max. Continuous Charge Current (I Max. Adc)	115
Min. Finishing Charge Current (I Min. Adc)	2%-3% C1 / Min. 200ma
Max Continuous Discharge Current (Adc)	120
Max Peak Current (Adc)	360 A RMS (3 seconds)
Self-Discharge (25°C / 77°F)	< 3% per month
Charge Temperature	Min: 4°C Max: 62°C (39.2°F to 143.6°F)
Discharge Temperature	Min: -17°C Max: 62°C (1.4°F to 143.6°F)
Storage Temperature	Min: -20°C Max: 45°C (-4°F to 113°F)

Electrical Specifications at 25°C.
* Do not exceed maximum voltage at the battery terminals.
CAUTION: Extra considerations must be given to depths of discharge, operating voltages and currents when designing systems for use at maximum operating temperatures.

FEATURES

LYNK PORT

- Connects battery string to LYNK Gateway
- Plug and Play Multi-battery BMS communication
- J1939 Protocol
- Remote ON / OFF Capable

HIGH-PERFORMANCE BMS

- Up to 3C peak power for inverters and motor controllers
- Discharge current up to 2C
- Continuous charge current up to 1C
- Sets voltage, broadcasts, SoC and temperature
- External field replaceable fuse protection

COLD CHARGING

- Integrated self-heating

STATUS VIEW

- ON / OFF multi-color status LED

ACCESSORIES

LYNK II GATEWAY

- Closed-loop communications with chargers and motor controllers
- CAN Open / Serial CAN
- Programmable relays for LVCO, Load Shedding
- SD Memory
- Download Battery Data

LYNK LITE GATEWAY

- Closed-loop communications with chargers and motor controllers
- CAN Open / Serial CAN
- Download Battery Data
- IP 65

BATTERY DISCHARGE INDICATOR

- At-a-glance SoC display

BENEFITS

RUNS LONGER

- 2x the high-current runtime of lead-acid battery
- Up to 100% usable capacity
- Easy to parallel more capacity

LASTS LONGER

- 10x the life of lead-acid battery (BCI-06)
- Unlimited Partial State of Charge cycles
- Energy throughput warranty

CHARGES FASTER

- Up to 5x faster than new lead-acid batteries
- 2x faster than C/2 rated lithium batteries
- Opportunity charge at 1C rate anytime, regardless of SoC

SURGE POWER

- High 3C Peak Power
- Discharge Current up to 2C

HIGH-EFFICIENCY

- Up to 50% more energy efficient than a lead-acid battery
- Up to 98% round-trip efficiency

PARALLEL POWER

- Easy to parallel more capacity
- Linear scaling of charge, discharge and peak capacity

QUICK INSTALL

- Fast installation
- No special tools

RELIABLE AND SAFE

- LiFePO₄ is safe
- Maintenance-free
- UL94-5VA flame retardant case and cover
- IP 67 rated

CERTIFIED QUALITY

Discover® manufacturing facilities are fully certified to ISO 9001/14001 and OSHA 18001 standards.

CERTIFICATION STANDARDS

- IEC 62619
- UL 2271
- CE
- UN 38.3

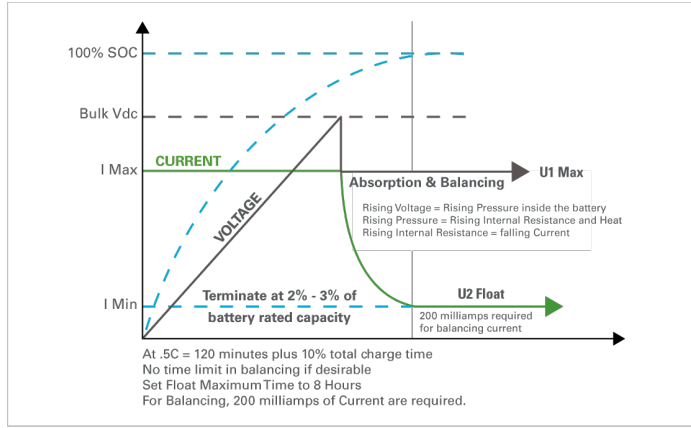
SHIPPING CLASSIFICATION

- UN 3480, Class 9 (Lithium batteries)

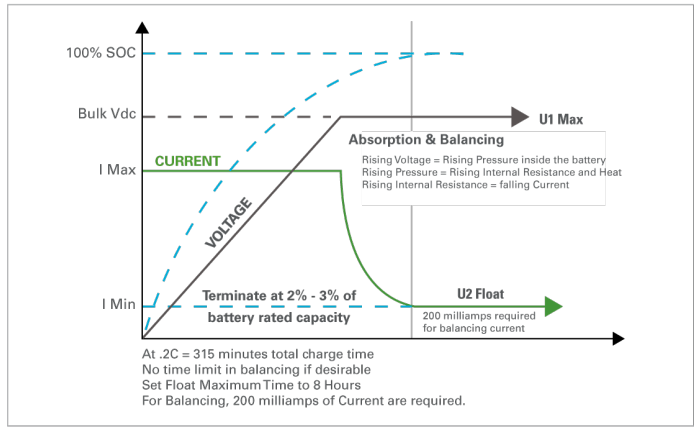
PERFORMANCE SPECIFICATIONS

Nominal Energy (kWh)	1.54	Minutes of Discharge				
Usable DoD	100%	@25A	@56A	@75A	@85A	@100A
Rated Wh Capacity (1C)	1536	288	128	96	84	72
Rated Ah Capacity (1C)	120					

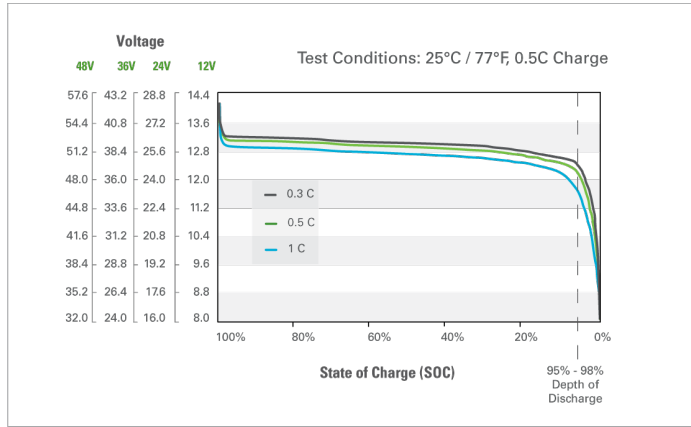
Fast Charging at .5C (2HR) to 1C (1HR)



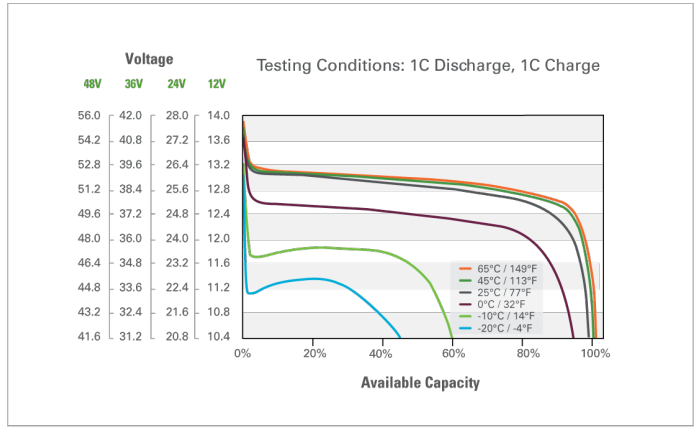
Standard to Low Rate Charging at .2C (5HR) to .5C (2HR)



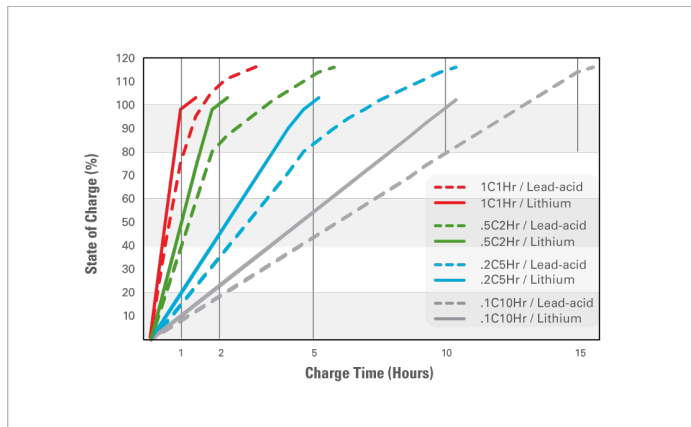
Voltage in Relation to Rate of Discharge



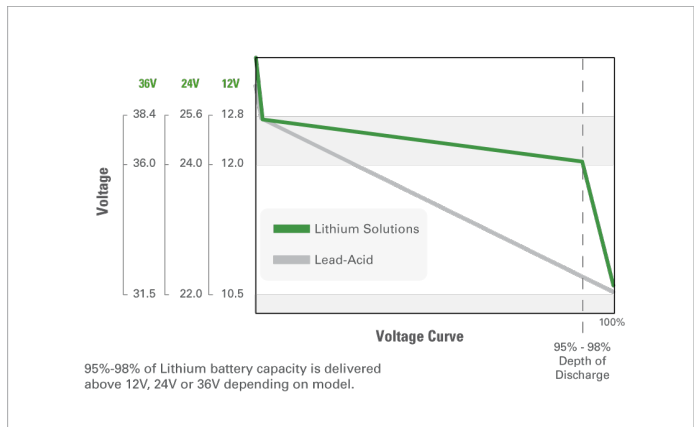
Discharge Voltage and Capacity vs. Temperature



Charge Performance (Lithium vs. Lead)



Discharge Performance (Lithium vs. Lead)



NOTES

CAUTION: Direct connection to DC motors without proper safety protection, motor controllers, and external motor voltage clamping systems (such as high power anti-parallel diodes or braking resistor systems) may result in damage to the internal pack protection system which may result in unsafe situations. Please consult Discover technical support before directly connecting any motorloads.

Discover® reserves the right to make adjustments to this publication at any time, without notice or obligation. Data in this publication are for reference use only and models may vary from shown. It is the responsibility of the reader of this information to verify any and all information presented herein. For more information contact us at info@discoverbattery.com