

ELECTRICAL SPECIFICATIONS

Nominal Capacity	7Ah
Nominal Voltage	12.8V
Discharge Energy	89.6Wh
Max. Charge Current	7A
Standard Cont. Discharge Current @25°C	1.4A
Max. Cont. Discharge Current @25°C	7A
Max. Pulse Discharge Current @25°C	14A
DC Resistance	≤80mΩ

MECHANICAL SPECIFICATIONS

Dimensions (L x W x H)	150 x 65 x 101mm
BCI Group U2	5.9 x 2.6 x 4in
Weight	1kg / 2.2lbs
Terminal Type	F2
Chemistry	LiFePO ₄

PERFORMANCE SPECIFICATIONS

100% DoD Cycles @ 25°C, 1C/1C	≥2000
Voltage Limit	8.4V ~ 14.6V
Charge Temperature Range	0°C ~ 45°C
Discharge Temperature Range	-20°C ~ 55°C

BATTERY MGMT. SYSTEM SPECIFICATIONS

Short Circuit Protection	YES
Over Charge Protection	15V ± 120mV (≤1.8s)
Reconnect Voltage	14.4V ± 200V
Over Discharge Protection	8.4V ± 320mV (≤195ms)
Reconnect Voltage	9.2V ± 400mV
Balancing Voltage	14.4V ± 200mV (53mA ± 10mA)
Over Temperature Protection	65°C ± 3°C (48°C ± 10°C release)
Over Current Protection	22A - 38A (≤17ms)

Note: maximum of 4 (packs) in series = 51.2v Nominal Charge
Also, maximum of 2 batteries in parallel.



Why Lithium-ion vs. SLA?

Increased Cycle Lives - 2,500+ full cycle lives versus 300 for an average SLA

Lighter and More Portable
- Up to 50% lighter than traditional SLA

High Efficiency Charging
- Much faster re-charge time vs. SLA

Extended Overall Battery Life Cycle
- Lasts 5X+ longer than an average SLA

Lower Overall Cost of Ownership
- Li-ion is actually less expensive over the lifetime of the battery vs. SLA

Safe w/ No Maintenance Required
- Sealed construction for safety, durability and requires no maintenance

12 YEAR WARRANTY!



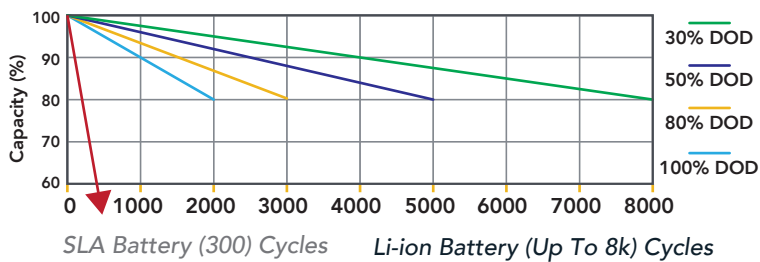
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7Ah 12.8V

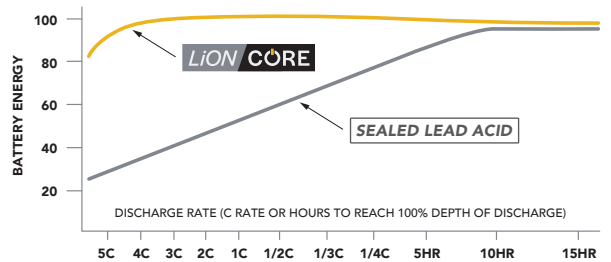


LC BATTERY PERFORMANCE vs. SLA

CYCLE LIVES @ 1C - LI-ION VS. SLA



ENERGY CAPACITY VS. DISCHARGE RATE



LI-ION VS. SLA INVESTMENT COMPARISON

LITHIUM ION

Li-ion provides maximum energy and consistent power much longer than SLA and at a lower overall cost (over the life of the battery)

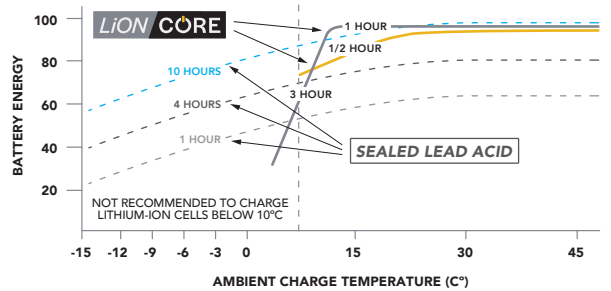
\$ = 5-10 yr.

SEALED LEAD ACID

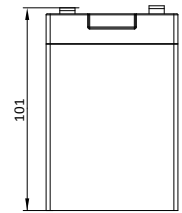
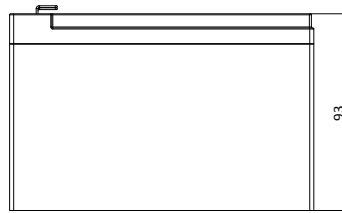
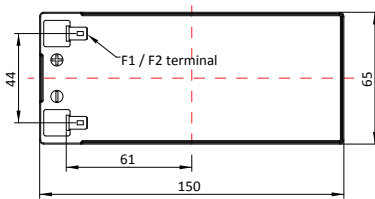
The average SLA battery requires replacement every 24 months (increasing overall costs)

\$\$+ = 5-10 yr.

ENERGY CAPACITY VS. CHARGE RATE



MECHANICAL DRAWINGS (mm)



COMPLIANCE SPECIFICATIONS

Certifications	UN38.3, CE
Shipping Classifications	UN3480, Class 9
Product Number	551111

Note: maximum of 4 (packs) in series = 51.2v Nominal Charge
Also, maximum of 2 batteries in parallel.

LiONCore deep cycle batteries are not intended for cold-cranking use.



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VERTICAL PARTNERS WEST LLC



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