

ELECTRICAL SPECIFICATIONS

Nominal Capacity	33Ah
Nominal Voltage	12.8V
Discharge Energy	422.4Wh
Max. Charge Current	33A
Standard Cont. Discharge Current @25°C	6.6A
Max. Cont. Discharge Current @25°C	33A
Max. Pulse Discharge Current @25°C	66A
DC Resistance	≤100mΩ

MECHANICAL SPECIFICATIONS

Dimensions (L x W x H)	196 x 132 x 154mm
BCI Group U1 & Ur1	7.7 x 5.2 x 6.2in
Weight	4.7kg / 10.3lbs
Terminal Type	M6
Chemistry	LiFePO ₄

PERFORMANCE SPECIFICATIONS

100% DoD Cycles @ 25°C, 1C/1C	≥2000
Voltage Limit	8.0V ~ 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	15.2V ± 200mV (≤1.5s)
Reconnect Voltage	14.4V ± 200mV
Over Discharge Protection	8V ± 320mV (≤150ms)
Reconnect Voltage	9.2V ± 400mV
Balancing Voltage	14.4V ± 100mV (53mA ± 10mA)
Over Temperature Protection	65°C ± 5°C (55°C ± 10°C release)
Over Current Protection	100A - 140A (≤25ms)

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!

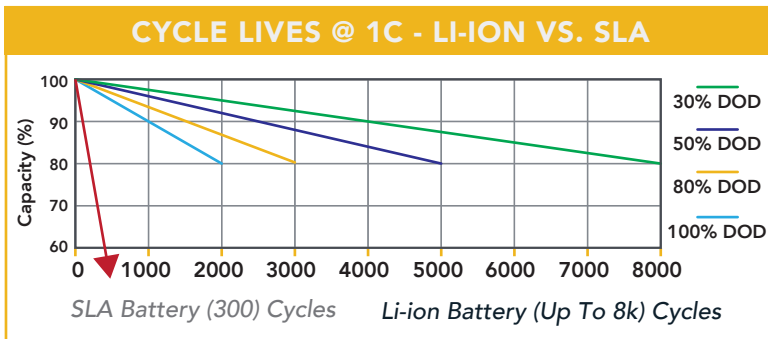


#551114

33Ah 12.8V



LC BATTERY PERFORMANCE vs. SLA



LI-ION VS. SLA INVESTMENT COMPARISON

LITHIUM ION

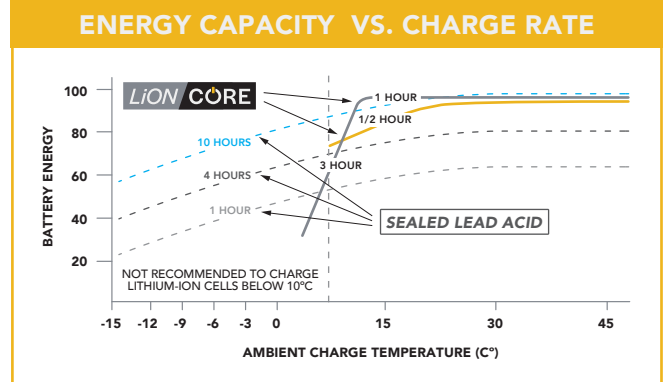
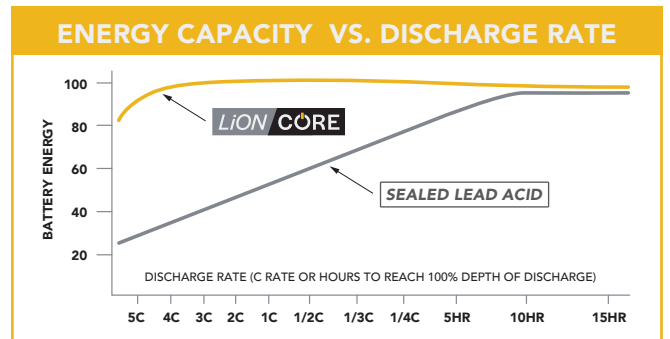
Li-ion provides maximum energy and consistent power much longer than SLA and at a lower overall cost (over the life of the battery)

\$ = 5-10 yr.

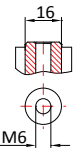
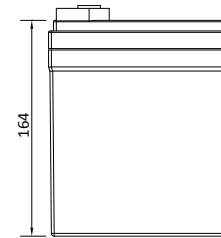
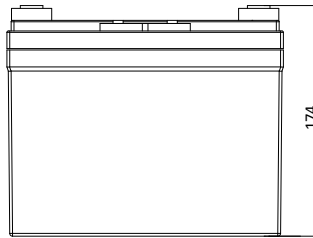
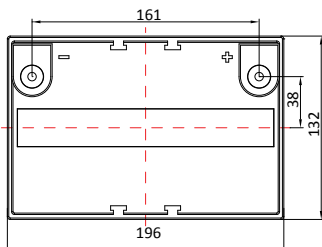
SEALED LEAD ACID

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

\$\$+ = 5-10 yr.



MECHANICAL DRAWINGS (mm)



COMPLIANCE SPECIFICATIONS

Certifications	UN38.3, CE
Shipping Classifications	UN3480, Class 9
Product Number	551114

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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