

**ELECTRICAL SPECIFICATIONS**

Nominal Capacity	100Ah
Nominal Voltage	12.8V
Discharge Energy	1.28kWh
Max. Charge Current	100A
Standard Cont. Discharge Current @25°C	60A
Max. Cont. Discharge Current @25°C	100A
Max. Pulse Discharge Current @25°C	200A
DC Resistance	≤10mΩ

**MECHANICAL SPECIFICATIONS**

Dimensions (L x W x H)	327 x 172 x 218mm
BCI Group 31	12.9 x 6.8 x 8.6in
Weight	14kg / 30.8lbs
Terminal Type	M8
Chemistry	LiFePO <sub>4</sub>

**PERFORMANCE SPECIFICATIONS**

100% DoD Cycles @ 25°C, 1C/1C	≥2000
Voltage Limit	9.2V ~ 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	15.4V ± 100mV (≤1.5s)
Reconnect Voltage	14.6V ± 200mV
Over Discharge Protection	9.2V ± 320mV (≤150ms)
Reconnect Voltage	10V ± 400mV
Balancing Voltage	14.4V ± 100mV (52mA ± 10mA)
Over Temperature Protection	70°C ± 5°C (50°C ± 12°C release)
Over Current Protection	300A (≤20ms)

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!**

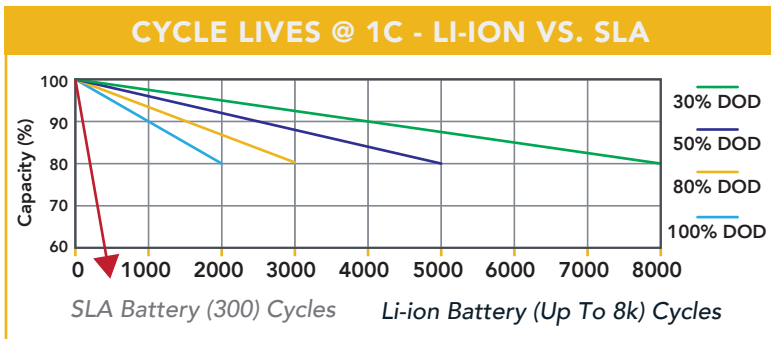


#551116

**100Ah 12.8V**



# LC BATTERY PERFORMANCE vs. SLA



### LI-ION VS. SLA INVESTMENT COMPARISON

**LITHIUM ION**

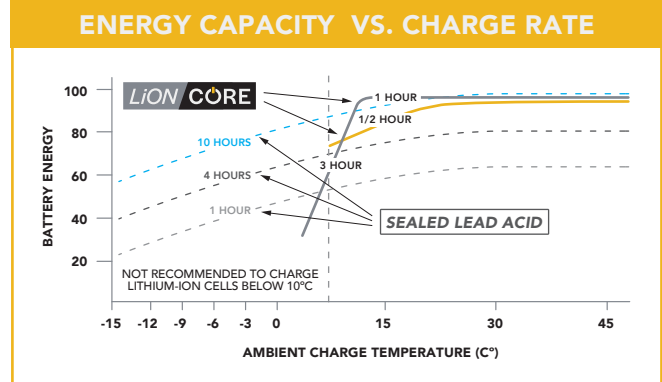
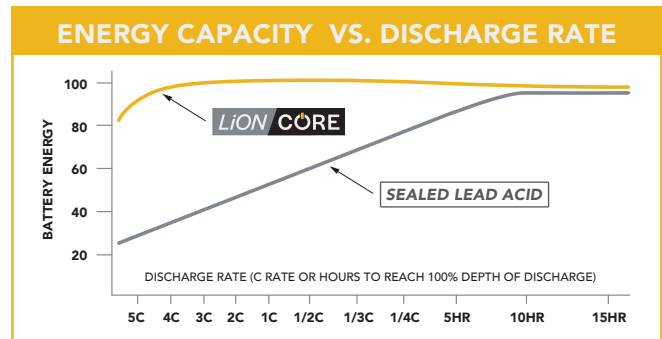
*Li-ion provides maximum energy and consistent power much longer than SLA and at a lower overall cost (over the life of the battery)*

**\$ = 5-10 yr.**

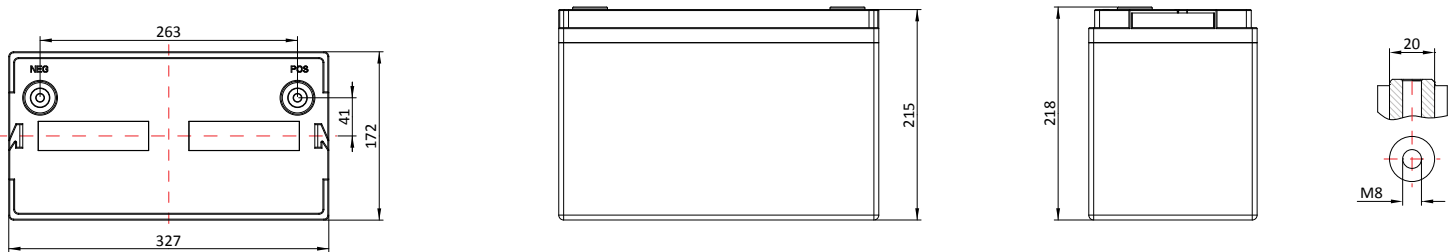
**SEALED LEAD ACID**

*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	551116

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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