

Highlights & Feature Set

- Designed for drop-in replacement for lead-acid batteries
- Deep cycle LiFePO4 batteries capable of 100% energy discharge
- Light weight – 60% lighter than comparable lead-acid batteries
- Intelligent battery management system (BMS)
- Bluetooth connectivity with mobile app for battery information
- High charge and discharge rates
- Up to 10-year design life and zero maintenance required
- IP67 rated – dust tight and can withstand water spray



Performance Data & Specifications

Electrical Properties & Technology

Nominal Voltage	12.8V
Nominal Capacity	60Ah
Rated Energy	768Wh
Self-Discharge (per Month)	<3%
Cell Type – Chemistry	Cylindrical – LiFePO4
Battery Management System (BMS)	Yes
Bluetooth	Yes
Cold Weather Rated – Self-Heating	No
Connection Configurations	4S or 4P

Charge Performance

Max. Charge Current	60A
Recommended Charge Voltage	14.6V
BMS Over-Voltage Cut-Off	14.6V
BMS Over-Voltage Recover	13.8V
Balancing Voltage	3.4V / 15mV
Rated Life Cycle @ 80%DoD	4000

Discharge Performance

Max. Continuous Discharge Current	90A
Max. Instantaneous Discharge Current (3s)	180A
Short Circuit Protection Current	800A
Discharge Cut-off Voltage	10.6V
BMS Under-Voltage Protection	10.6V
BMS Under-Voltage Recover	11.4V
BMS Short Circuit Protection	250μs
Rated Life Cycle @ 80%DoD	4000

Temperature Performance

Discharge Temperature	-20°C ~ 65°C
Charge Temperature	0°C ~ 60°C
Storage Temperature	10°C ~ 45°C
BMS High Temp. Discharge Recover	60°C
BMS Low Temp. Discharge Recover	-15°C
BMS High Temp. Charge Recover	55°C
BMS Low Temp. Charge Recover	5°C

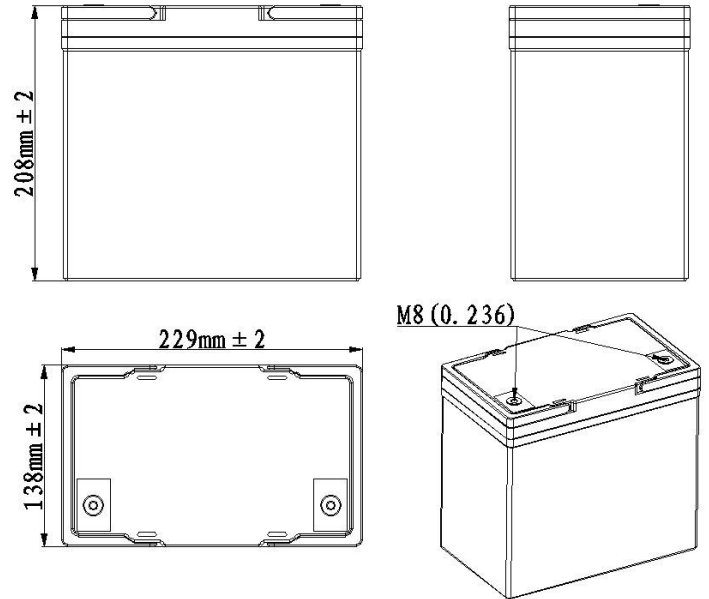
Physical Properties

Overall Dimensions (L x W x H)	229mm x 138mm x 208mm
Weight	8kg (17.6lbs)
Terminal Thread Type	M8
Torque	10Nm - 12Nm
Case Material	ABS
Case Colour	Black
Ingress Protection Rating	IP67

Misc. & Compliance

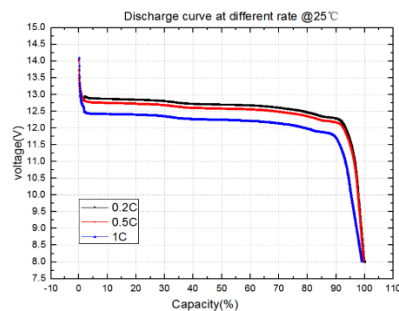
Warranty	10-year limited
Certifications	CE, MSDS, UN38.3, RoHS

Dimensional Data

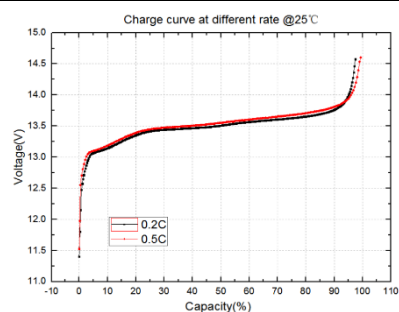


Charge & Discharge Curves

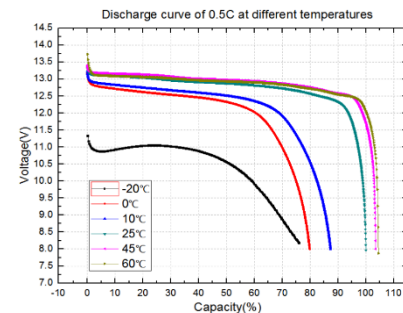
Different Rate Discharge Curve (25°C)



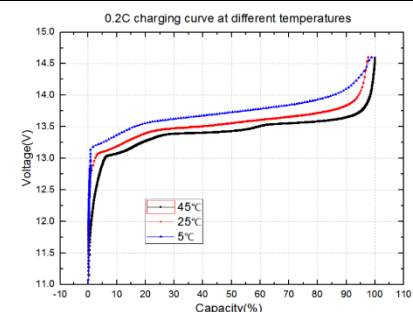
Different Rate Charge Curve (25°C)



Different Temp. Discharge Curve (0.5C)



Different Temp. Charge Curve (0.2C)



Specifications

Construction

Very tough and durable black Acrylonitrile Butadiene Styrene (ABS) casing designed with fixed top cover. The battery assembly is IP67 rated which means it is dust tight and protected against jets of water. The battery is not waterproof.

Cells

Batteries are complete with brand new, Grade A, UL1642 certified, cylindrical lithium iron phosphate (LiFePO4) cells with nominal voltage of 3.2V and connected to achieve the rated voltage and capacity. Due to strong covalent bonds between the iron, phosphorus, and oxygen atoms in the cathode, our LiFePO4 cells are very safe, more stable, and less prone to thermal runaway and overheating.

Intelligent Battery Management System

The in-built intelligent battery management system (BMS) offers a wide range of safety functions including: cell over-charge protection & recovery, battery pack over-charge protection & recovery, cell over-discharge protection & recovery, battery pack over-discharge protection & recovery, charge over-current protection & recovery, discharge over-current protection & recovery, charge and discharge high temperature protection & recovery, charge and discharge low temperature protection & recovery, passive cell balancing and equalization, wireless Bluetooth connectivity via mobile app, remote diagnostics, and optional CANBUS connectivity.

Warranty

10-year limited warranty, please refer to www.enxertech.com for details or contact us at info@enxertech.com for any further support. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed.

Notes:

1. Actual performance may differ as a result of end user environment and application.
2. All values are design or typical values, measured under laboratory conditions.