

12v 100Ah

DATA SHEET



PRODUCT FEATURES

- Ultra safe lithium iron phoshate (LiFePO₄) cells
- Integrated battery management system (BMS)
- Light weight and compact
- Water and dust resistant (IP55)
- Highly durable sealed ABS plastic enclosure
- Drop-in 12v lead acid replacement
- Sealed and non-liquid (No fumes, no leaking, mount in any position)

TYPICAL APPLICATION

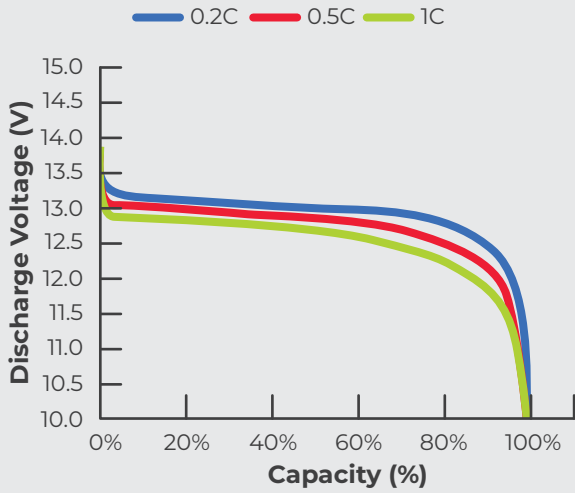
- Load shedding backup/UPS battery
- Long-life battery perfect for small 720W inverter chargers
- Camping fridge additional battery
- Solar storage battery

TECHNICAL SPECIFICATION

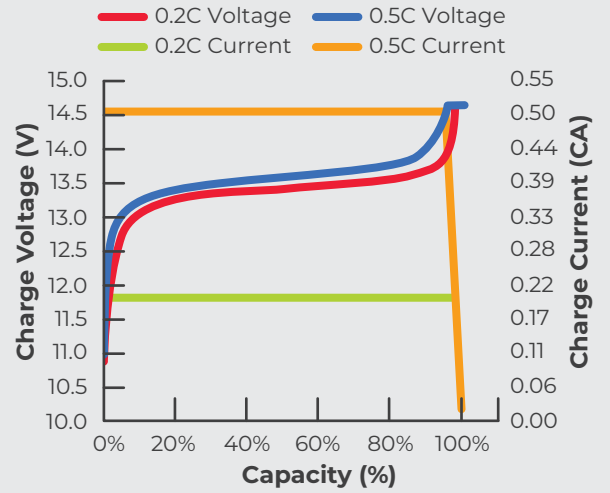
Usable Capacity	1280 Wh	Nominal Voltage	100Ah @ 0.2C
Nominal Capacity	100Ah @ 0.2C	Operating Voltage Range	11.6 VDC – 14.4VDC
Weight (kg)	10.4kg	Warranty Period	2 Years
Bulk Charging Voltage	14.4v DC	Float Charging Voltage	13.8 VDC
Maximum Current	100A	Discharge Voltage Minimum	11.6v
Self-discharge Rate	< 3.5% per month	Cycle Life	2000 – 8000 depending on % DOD
Over-voltage Cut-out	14.6v	Under-voltage Cut-out	10.6v
Discharge Current	Max 100A (Burst 200A, <3s)	Charge Current	Max 100A
Battery Type	Lithium Iron Phosphate (LiFePO ₄)		
Dimensions (mm)	328 x 172 x 216 mm (L x W x H)		
Lifespan	2000 cycles @ 0.2C charging, or discharging until 70% capacity		
Protection	Over-voltage Under-voltage Short circuit Dust and water resistant		
Operating Temp Range	Charge: 0°C to 45°C Discharge: -20°C to 60°C		

LITHIUM IRON PHOSPHATE (LiFePO4) BATTERY

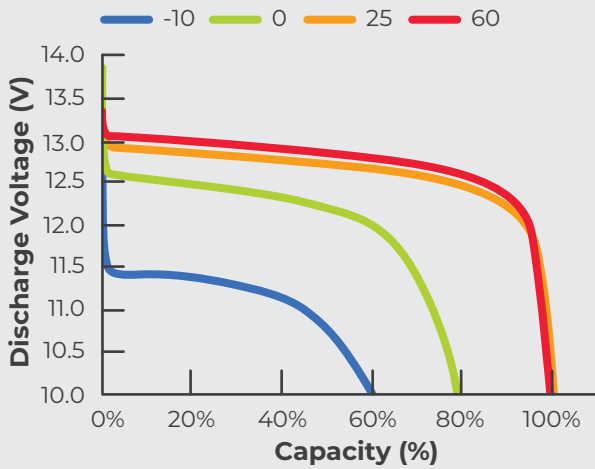
Different Rate Discharge Curve @25 °C



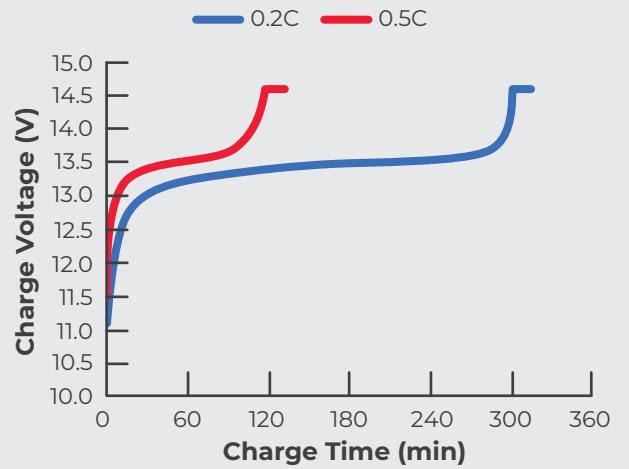
Charge Characteristics Of Capacity Voltage @0.2C & 0.5C, 25 °C



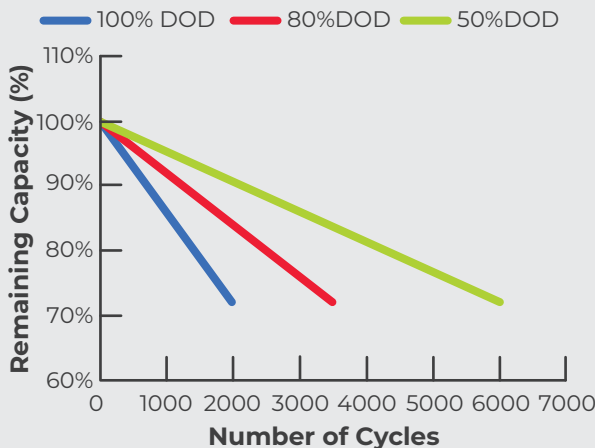
Different Temperature Discharge Curve @0.5C, 25 °C



Charge Characteristics Of Capacity Voltage @0.2C & 0.5C, 25 °C



Different DOD Discharge Cycle Life Curve @0.5C, 25 °C



Open Circuit Voltage VS SOC% @25 °C

