



Global Power lithium series batteries provide superior performance, capacities and reliability. Using state of high power cell technology, the lithium series is designed for environmentally sensitive areas that require enhanced cycle life capabilities in commercial.

Global Power lithium batteries are widely used in industrial, residential, commercial and private applications. The maintenance free construction and advanced design features makes the lithium series the definitive choice for a wide variety of markets. Like solar and renewable energy storage, electric vehicle, golf cart and industrial equipment, floor machines, forklifts, aerial lifts, and robotics; marine, RV, and no-idle solution; Mobility and Medical Equipment; Telecom, Broadband and Cable TV; UPS systems.

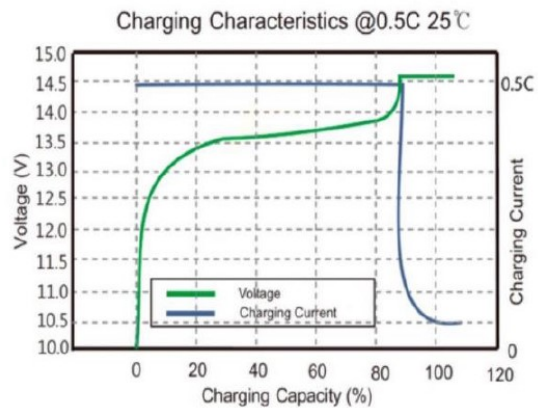
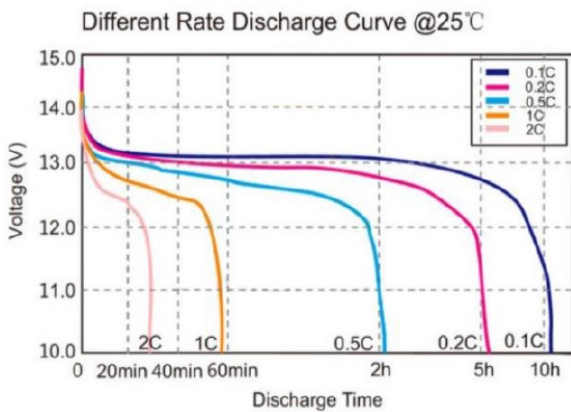
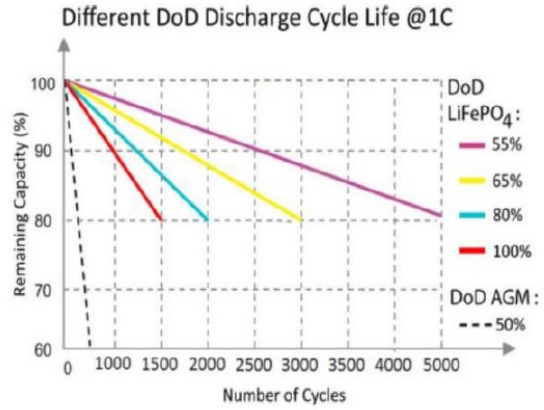
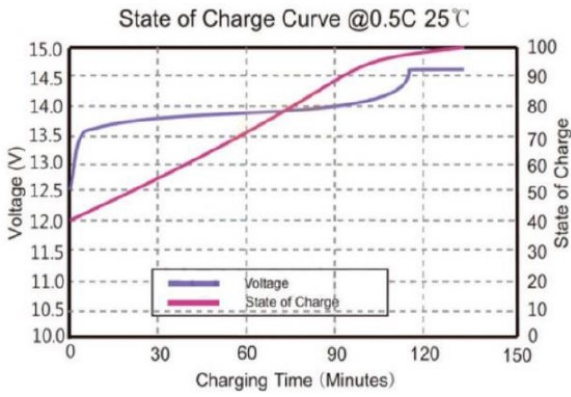
Specifications

Nominal Voltage	12V (12.8V)	
Nominal Capacity	100Ah	
Dimensions	Length	280mm
	Width	210mm
	Height	170mm
Approx. Weight	12kg	
Terminal Type	M8 Screw	
Case Material	ABS	
Enclosure Protection	IP65	
Cell Type	Prismatic 3.2V 100ah	
Temperature Specification	Discharge Temp.	-20°C to 60°C
	Charge Temp.	0°C to 55°C
	Storage Temp.	-20°C to 40°C
	BMS High Temp.	80°C
	Reconnect Temp.	50°C
Capacity @20A	5HR	
Energy	1280WH	
Internal Resistance	≤20mΩ	
Efficiency	99%	
Self-discharge	< 3% per month	
Max. Cont. Discharge Current	100A	
Peak Discharge Current	200A	
Discharge Cut-off Voltage	10V	
Recommended Charge Current	20A-30A	
Max. Charge Current	100A	
Max. Charge Voltage	14.6	
Charge Current (-20°C to -10°C)	≤0.05C	

Feature & Benefits

- High Cycle Life : >2000 times @80%DOD for effectively lower cost of ownership.
- Built-in BMS Protection: Battery Management System are incorporated to protect battery from OVER CHARGING, OVER DISCHARGING, SHORT CIRCUIT.
- LIGHT WEIGHT: Dry power lithium batteries has higher energy density, wh/kg also being up to 1/3 of SLA battery.
- WIDE OPERATING TEMPERATURE RANGE: Suitable for users in a wider range of application where ambient temperature is unusually high: up to +60°C.
- STEADY OUTPUT VOLTAGE, VIBRATION & SHOCK RESISTANT, NO MEMORY EFFECT, PRESSURE RESISTANT CELLS.

Performance Curves



SUITABLE APPLICATIONS

- Lithium Iron Phosphate can be used in any application that would normally use Lead Acid, GEL, or AGM type batteries.
- LiFePO4 in 4S=12.8V and 8S=25.6V is closed to Lead Acid equivalents of the Lithium rechargeable types.
- Suitable applications included caravan, marine, golf carts, solar storage, remote monitoring, switching applications.

CAUTIONS

- Do NOT expose the battery to water.
- Do NOT expose the battery to fire & high temperature.
- Do NOT short circuit, crush, or disassemble.
- Only use LiFePO4 charger.
- Store at 50% capacity, recharge every 3 months. The storage area should be clean, cool, dry and ventilated.