

Enjoybot Lithium Iron Phosphate LiFePO4 Deep Cycle Battery 12V 100Ah Mini

















HIGH QUALITY LITHIUM BATTERY

- High energy density: Provides long runtimes and has a large storage capacity.
- Longer lifespan: Can undergo more charge and discharge cycles, resulting in longer service life.
- Enhanced stability and safety: Less susceptible to safety issues like overheating and fire.
- Environmentally friendly: No liquid, non-toxic, and causes less pollution to the environment.
- Fast charging: Reduces users' charging time.

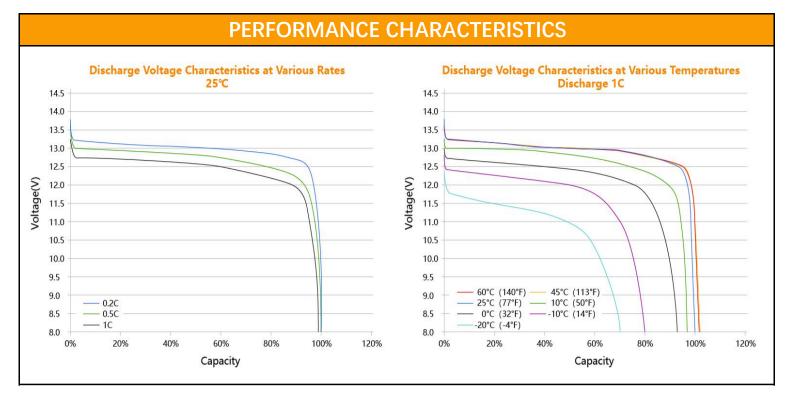
TEMPERATURE SPECIFICATIONS			
Charge Temperature	32 ~ 122 °F (0 ~ 50 °C)		
Discharge Temperature	-4 ~ 140 °F (-20 ~ 60 °C)		
Storage Temperature	14 ~ 122 °F (-10 ~ 50°C)		
High Temp Cut-Off / Recovery	167 °F (75 °C) / 122°F (50 °C)		
Low Temp Cut-Off / Recovery	32 °F (0 °C) / 41°F (5 °C)		

ELECTRICAL SPECIFICATIONS		
Nominal Voltage 12.8V		
Nominal Capacity	100Ah, 1280Wh	
Cell Type - Chemistry	LiFePO4	
Cycle Life	5000 times @80% DOD	
BMS Rating	100A	

MECHANICAL SPECIFICATIONS			
Dimensions(L xW x H)	10.23x 6.61x 8.22 inch 260x168x209mm		
Weight	22 lbs (10kg)		
Terminal	M8*16mm (L)		
Case Material	ABS Plastic		
Waterproof Rating	IP65		

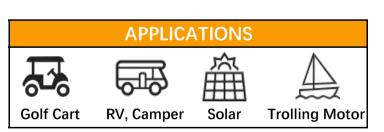
CHARGE SPECIFICATIONS			
Recommended Charge Current	20 A		
Max. Continuous Charging Current	50A		
Recommended Charge Voltage	14.2 V – 14.6V		
Max. Batteries in Series	4		
Max. Batteries in Parallel	10		
Max. Configuration	4S4P		

DISCHARGE SPECIFICATIONS			
Max. Continuous Discharge Current	100A		
Peak Discharge Current	350A (3-5s)		
Max Depth of Discharge (DOD)	100%		
Max. Load /Inverter Power	1280W		



STATE OF CHARGE (SOC)			
Charge		Discharge	
Voltage(V)	Electricity	Voltage(V)	Electricity
11.85	0%	13.4~13.8	100%
13.01	10%	13.38	90%
13.21	20%	13.37	80%
13.33	30%	13.37	70%
13.33	40%	13.26	60%
13.33	50%	13.23	50%
13.35	60%	13.21	40%
13.45	70%	13.15	30%
13.45	80%	13.04	20%
13.45	90%	12.91	10%
13.6	100%	11.85	0%
*12.8V LiFePO4 battery laboratory test data (for reference only)			

MPPT PARAMETER SETTINGS
Charging:
Charging Limit Voltage: 14.2V
Over Voltage Disconnect Voltage: 14.6V
Over Voltage Reconnect Voltage: 13.8V
Float Charging Voltage: 13.8V
Discharging:
Low Voltage Disconnect Voltage: 11.6V
Low Voltage Reconnect Voltage: 12.4V
Under Voltage Warning Voltage: 12.8V



ALL-ROUND PROTECTION WITH BMS			
Overcharge Protection	High/Low Temperatur e Protection	Short-circuit Protection	
Over-discharge Protection	Overload Protection	Battery Cell Balancing	

