

Enjoybot Lithium Iron Phosphate LiFePO4 Deep Cycle Battery 12V 400Ah





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)	

LITHIUM IRON PHOSPHATE DEEP CYCLE RECHARGEABLE BATTERY Larged Larged	or corr port and manimed Capaby Addet Visitabor Capaby Kalapi Capaby Kalapi Capaby Kalapi Capaby Capaby Stellah Davison, Capabi Operator, Tenna Canada Operator, Tenna Canada Operator, Tenna Canada Steve at a 10% Capaby, Tenna Canada Steve at a 10% Capaby, Tenna Canada	O'C INCINERATE		
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ELECTRICAL SPECIFICATIONS				
Nominal Voltage 12.8V		.2.8V		

BMS Rating	250A		
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MECHANICAL SPECIFICATIONS			
Dimensions(L xW x H)	20.47 x 10.59 x 8.66 inch 520 x 269 x 220 mm		
Weight	85.98 lbs (39kg)		
Terminal	M8*16mm (L)		
Case Material	ABS Plastic		
Waterproof Rating	IP65		

Nominal Capacity Cell Type - Chemistry

Cycle Life

CHARGE SPECIFICATIONS		
Recommended Charge Current	80 A	
Max. Continuous Charging Current	125A	
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	250A	
Peak Discharge Current	875A (3-5s)	
Max Depth of Discharge (DOD)	100%	
Max. Load /Inverter Power	3200W	

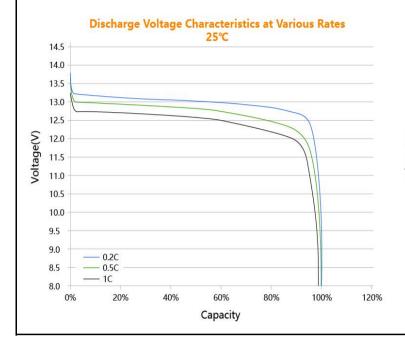


400Ah, 5120Wh

LiFePO4

5000 times @80% DOD

PERFORMANCE CHARACTERISTICS



STATE OF CHARGE (SOC)			
Charge		Discharge	
Voltage(V)	Electricity	Voltage(V)	Electricity
11.85	O%	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	О%
*12.8V LiFePO4 battery laboratory test data (for reference only)			

Discharge 1C 14.5 14.0 13.5 13.0 12.5 Voltage(V) 12.0 11.5 11.0 10.5 10.0 9.5 45°C (113°F) 10°C (50°F) 60°C (140°F) 9.0 25°C (77°F) 8.5 0°C (32°F) —-10°C (14°F) -20°C (-4°F) 8.0 0% 20% 40% 60% 80% 100% 120% Capacity

Discharge Voltage Characteristics at Various Temperatures

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

