

Enjoybot Deep Cycle LiFePO4 Lithium Battery 12V 100Ah Group 31 Low-Temp Protection













DIMENSIONAL SPECIFICATIONS



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.

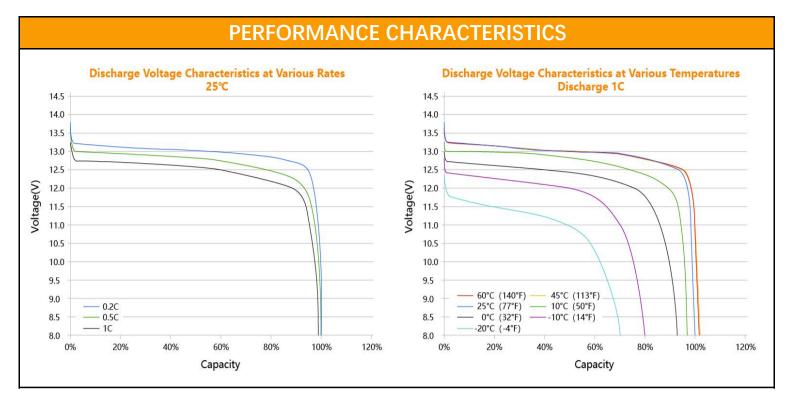
TEMPERATURE SPECIFICATIONS			
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Charge Temperature	32 ~ 122 °F (0 ~ 50 °C)		
Discharge Temperature	-4 ~ 140 °F (-20 ~ 60 °C)		
Storage Temperature	14 ~ 122 °F (-10 ~ 50°C)		
High Temp Cut-Off / Recovery	167 °F (75 °C) / 122°F (50 °C)		
Low Temp Cut-Off / 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	4000+ cycles at 100% DOD, 6000 cycles at 80% DOD	
BMS Rating	100A	

MECHANICAL SPECIFICATIONS			
Dimensions(L xW x H) 12.95 x 6.77 x 8.42 ir 329 x 172 x 214 mr			
Weight	23 lbs (10.5kg)		
Terminal	M8*16mm (L)		
Case Material	ABS Plastic		
Waterproof Rating	IP67		

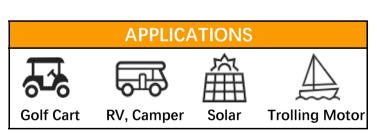
CHARGE SPECIFICATIONS			
Recommended Charge Current 20A			
Max. Continuous Charging Current	50A		
Recommended Charge Voltage	14.2 V – 14.6V		
Max. Batteries in Series	6		
Max. Batteries in Parallel 4			
Max. Configuration	6S4P		

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
11.68	0%	13.4	100%
12.88	10%	13.32	90%
13.09	20%	13.32	80%
13.21	30%	13.31	70%
13.22	40%	13.18	60%
13.23	50%	13.16	50%
13.25	60%	1315	40%
13.36	70%	13.08	30%
13.37	80%	12.96	20%
13.37	90%	12.81	10%
13.38	100%	11.17	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	



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