

# Enjoybot Deep Cycle LiFePO4 Lithium Battery 12V 100Ah Group 24 Self-Heating





### 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         -4 ~ 131 °F (-20 ~ 55 °C		
Discharge Temperature	-4 ~ 140 °F (-20 ~ 60 °C)	
Storage Temperature	14 ~ 122 °F (-10 ~ 50°C)	
Charging Cut Off, Self-Heating Starts	<32 ℉ (0 ℃)	
Self-Heating Stop, Charging Recover	ng Recover > 41 °F (5 °C)	

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EB-12100MINI-SH 12.8V 1280WD Beretikowa Cantowan Darrat - 21.5Min Samp Carrat - 35Maga 12-456canit - 1	

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

MECHANICAL SPECIFICATIONS			
Dimensions(L xW x H)         10.23x 6.61x 8.22 ir 260x168x209mm			
Weight	22 lbs (10kg)		
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	4		
Max. Batteries in Parallel	4		
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		

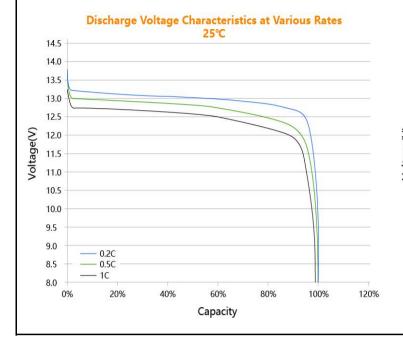
# **PERFORMANCE CHARACTERISTICS**

8.0

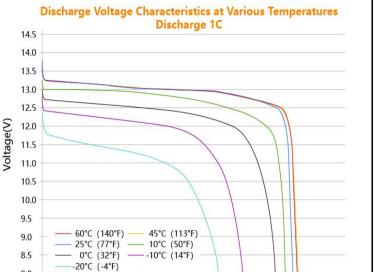
0%

20%

40%



STATE OF CHARGE (SOC)			
Charge		Discharge	
Voltage(V)	Electricity	Voltage(V)	Electricity
11.68	O%	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)			



60%

Capacity

80%

100%

120%

# 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





