

# Enjoybot Deep Cycle LiFePO4 Lithium Battery

## 12V 65Ah Group 22NF Bluetooth & Self-Heating



### DIMENSIONAL SPECIFICATIONS



### ELECTRICAL SPECIFICATIONS

Nominal Voltage	12.8V
Nominal Capacity	65Ah, 832Wh
Cell Type - Chemistry	LiFePO4
Cycle Life	4000+ cycles at 100% DOD 6000 cycles at 80% DOD
BMS Rating	120A

### MECHANICAL SPECIFICATIONS

Dimensions(L xW x H)	9.02 x 5.43 x 8.19 inch 229 x 138 x 208mm
Weight	18.74 lbs (8.5kg)
Terminal	M8*16mm (L)
Case Material	ABS Plastic
Waterproof Rating	IP67

### 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.

### CHARGE SPECIFICATIONS

Recommended Charge Current	13A
Max. Continuous Charging Current	65A
Recommended Charge Voltage	14.2 V – 14.6V
Max. Batteries in Series	4
Max. Batteries in Parallel	4
Max. Configuration	4S4P

### TEMPERATURE SPECIFICATIONS

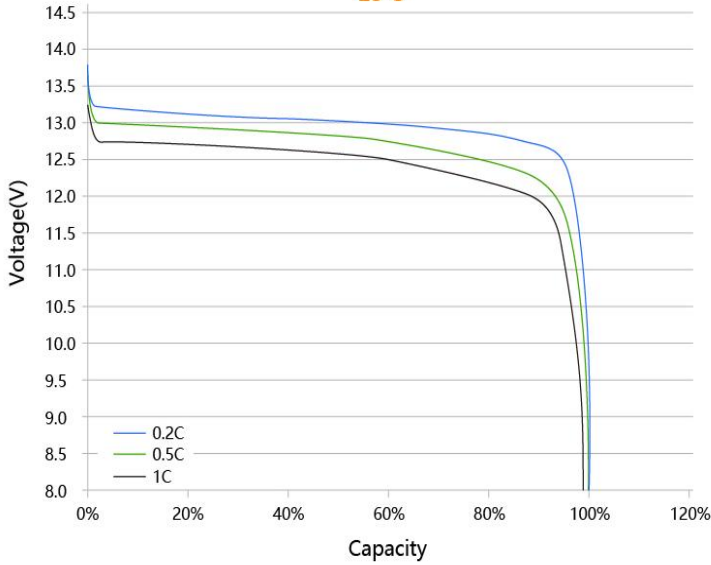
Charge Temperature	-4 ~ 131 °F (-20 ~ 55 °C)
Discharge Temperature	-4 ~ 140 °F (-20 ~ 60 °C)
Storage Temperature	14 ~ 122 °F (-10 ~ 50°C)
Charging Cut Off, Self-Heating Starts	< 32 °F (0 °C)
Self-Heating Stop, Charging Recover	> 41 °F (5 °C)

### DISCHARGE SPECIFICATIONS

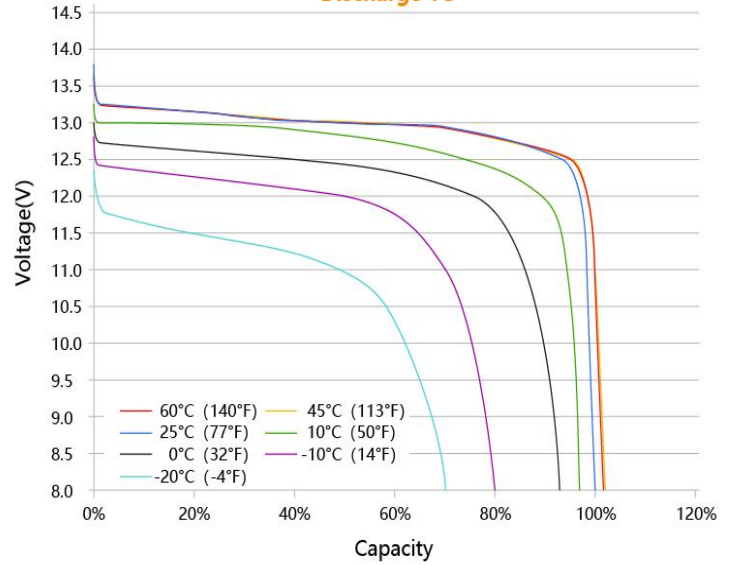
Max. Continuous Discharge Current	120A
Peak Discharge Current	350A (3-5s)
Max Depth of Discharge (DOD)	100%
Max. Load /Inverter Power	1536W

# PERFORMANCE CHARACTERISTICS

Discharge Voltage Characteristics at Various Rates  
25°C



Discharge Voltage Characteristics at Various Temperatures  
Discharge 1C



## 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%	13.15	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

## APPLICATIONS



Ice Fishing



Trolling Motor



Fish Finder



Mobility Scooter

## ALL-ROUND PROTECTION WITH BMS



Overcharge Protection



High/Low Temperature Protection



Short-circuit Protection



Over-discharge Protection



Overload Protection



Battery Cell Balancing