

Enjoybot Deep Cycle LiFePO4 Lithium Battery 36V 65Ah Group 31 Bluetooth & Self-Heating



DIMENSIONAL SPECIFICATIONS



ELECTRICAL SPECIFICATIONS

Nominal Voltage	38.4V
Nominal Capacity	65Ah, 2496Wh
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)	12.9 x 6.77 x 9.25 inch 328 x 172 x 235 mm
Weight	41.8 lbs (19kg)
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	42.6V - 43.8V
Max. Batteries in Series	2
Max. Batteries in Parallel	4
Max. Configuration	2S4P

TEMPERATURE SPECIFICATIONS

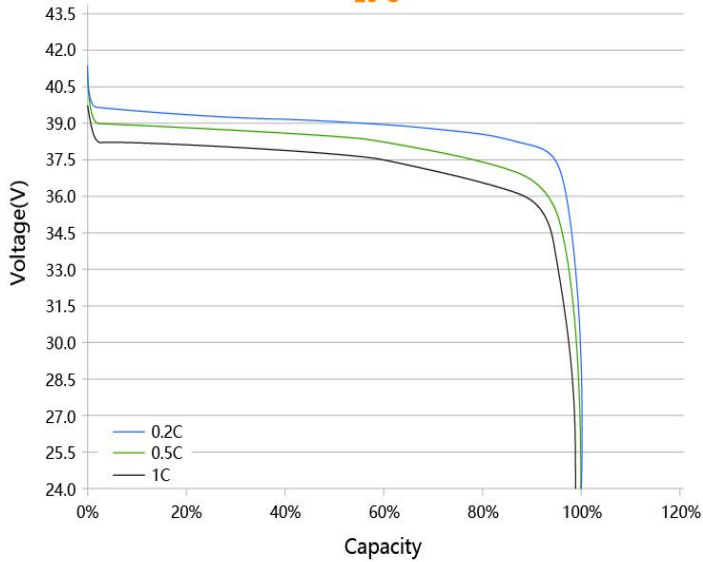
Charge Temperature	-4 ~ 131 °F (-20 ~ 55 °C)
Discharge Temperature	-4 ~ 140 °F (-20 ~ 60 °C)
Storage Temperature	14 ~ 122 °F (-10 ~ 50°C)
Charging Cut Off, Self-Heating Starts	< 32 °F (0 °C)
Self-Heating Stop, Charging Recover	> 41 °F (5 °C)

DISCHARGE SPECIFICATIONS

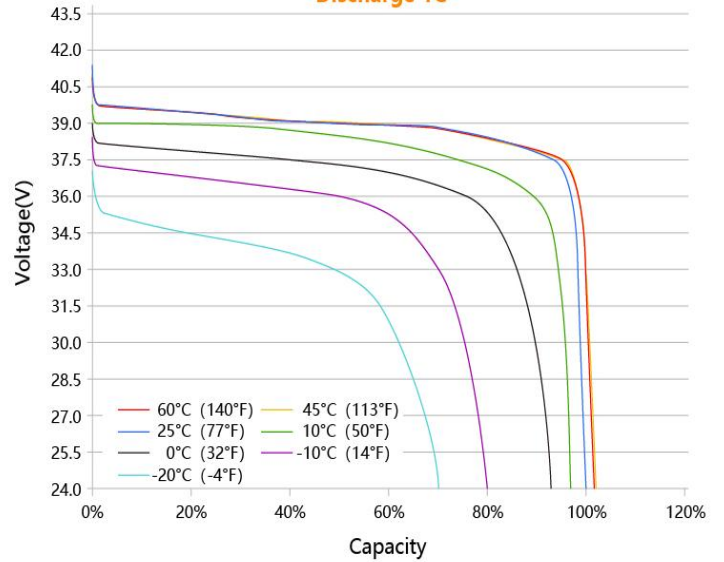
Max. Continuous Discharge Current	120A
Peak Discharge Current	500A (3-5s)
Max Depth of Discharge (DOD)	100%
Max. Load /Inverter Power	2496W

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
35.05	0%	40.20	100%
38.65	10%	39.97	90%
39.26	20%	39.95	80%
39.62	30%	39.92	70%
39.66	40%	39.53	60%
39.7	50%	39.48	50%
39.76	60%	39.46	40%
40.09	70%	39.25	30%
40.11	80%	38.87	20%
40.12	90%	38.44	10%
40.14	100%	33.52	0%

*38.4V LiFePO4 battery laboratory test data (for reference only)

MPPT PARAMETER SETTINGS

Charging:
Charging Limit Voltage: 42.6V
Over Voltage Disconnect Voltage: 43.8V
Over Voltage Reconnect Voltage: 41.4V
Float Charging Voltage: 41.4V
Discharging:
Low Voltage Disconnect Voltage: 34.8V
Low Voltage Reconnect Voltage: 37.2V
Under Voltage Warning Voltage: 38.4V

APPLICATIONS



Golf Cart



Trolling Motor



Solar



Home Backup

ALL-ROUND PROTECTION WITH BMS



Overcharge Protection



High/Low Temperature Protection



Short-circuit Protection



Over-discharge Protection



Overload Protection



Battery Cell Balancing