

Enjoybot Deep Cycle LiFePO4 Lithium Battery 36V 100Ah Plus w/ Bluetooth & Low Temp



DIMENSIONAL SPECIFICATIONS



ELECTRICAL SPECIFICATIONS

Nominal Voltage	38.4V
Nominal Capacity	100Ah, 3840Wh
Cell Type - Chemistry	LiFePO4
Cycle Life	4000+ cycles at 100% DOD, 6000 cycles at 80% DOD
BMS Rating	200A

MECHANICAL SPECIFICATIONS

Dimensions(L xW x H)	20.47 x 10.59 x 8.66 inch 520 x 269 x 220 mm
Weight	66 lbs (29.95kg)
Terminal	M8*16mm (L)
Case Material	ABS Plastic
Waterproof Rating	IP67

BLUETOOTH APP DOWNLOAD



CHARGE SPECIFICATIONS

Recommended Charge Current	20A
Max. Continuous Charging Current	100A
Recommended Charge Voltage	42.6 V – 43.8 V
Max. Batteries in Series	2
Max. Batteries in Parallel	4
Max. Configuration	2S4P

TEMPERATURE SPECIFICATIONS

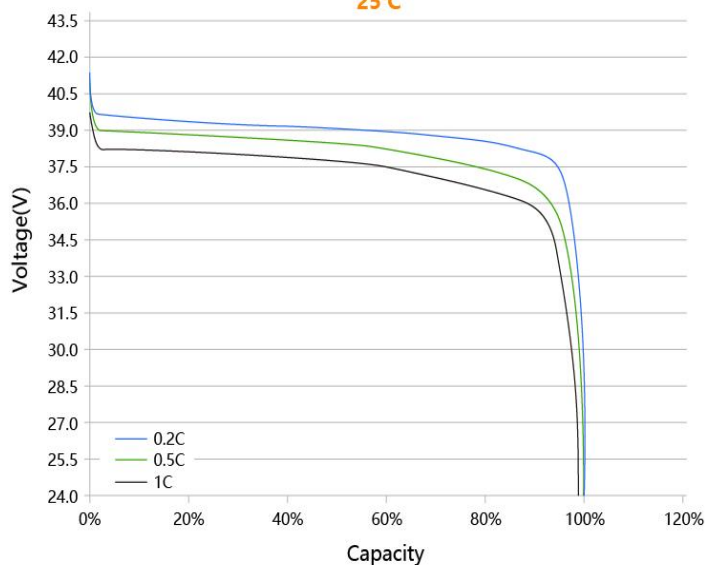
Charge Temperature	32 ~ 122 °F (0 ~ 50 °C)
Discharge Temperature	-4 ~ 140 °F (-20 ~ 60 °C)
Storage Temperature	14 ~ 122 °F (-10 ~ 50°C)
High Temp Cut-Off / Recovery	167 °F (75 °C) / 122°F (50 °C)
Low Temp Cut-Off / Recovery	32 °F (0 °C) / 41°F (5 °C)

DISCHARGE SPECIFICATIONS

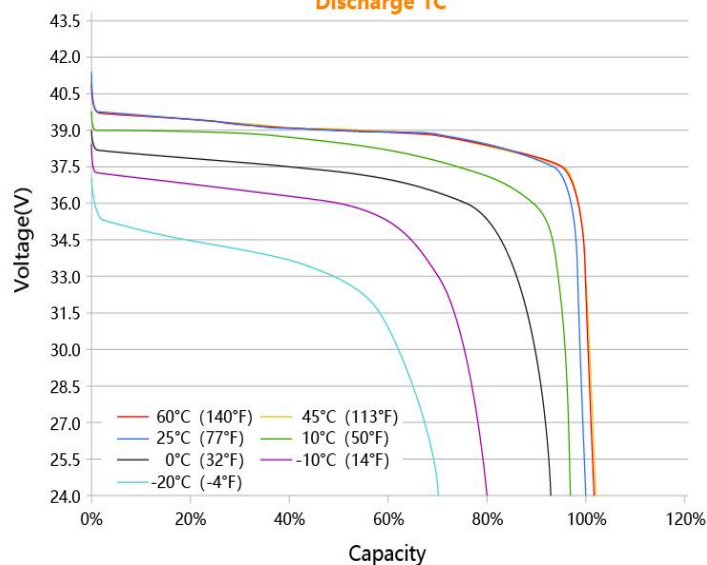
Max. Continuous Discharge Current	200A
Peak Discharge Current	1000A (3-5s)
Max Depth of Discharge (DOD)	100%
Max. Load /Inverter Power	7680W

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