

Enjoybot Lithium Iron Phosphate LiFePO4 Deep Cycle Battery 36V 100Ah



MSDS



DIMENSIONAL SPECIFICATIONS



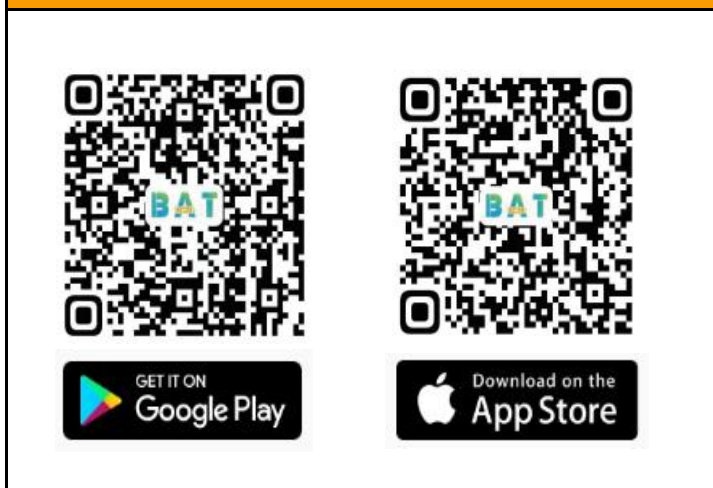
ELECTRICAL SPECIFICATIONS

Nominal Voltage	38.4V
Nominal Capacity	100Ah, 3840Wh
Cell Type - Chemistry	LiFePO4
Cycle Life	5000 times @80% DOD
BMS Rating	100A

MECHANICAL SPECIFICATIONS

Dimensions(L xW x H)	20.47 x 10.59 x 8.66 inch 520 x 269 x 220 mm
Weight	63.27 lbs (28.7kg)
Terminal	M8*16mm (L)
Case Material	ABS Plastic
Waterproof Rating	IP65

BLUETOOTH APP DOWNLOAD



CHARGE SPECIFICATIONS

Recommended Charge Current	20 A
Max. Continuous Charging Current	50A
Recommended Charge Voltage	42.6 V – 43.8 V
Max. Batteries in Series	1
Max. Batteries in Parallel	10
Max. Configuration	1S4P

TEMPERATURE SPECIFICATIONS

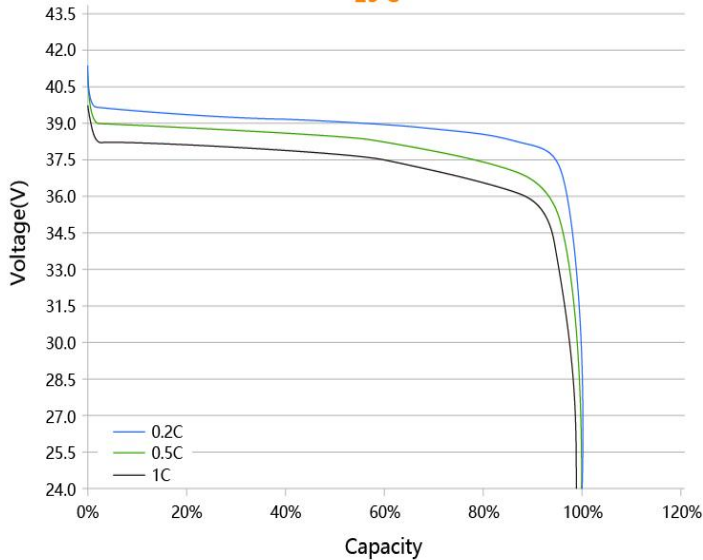
Charge Temperature	32 ~ 122 °F (0 ~ 50 °C)
Discharge Temperature	-4 ~ 140 °F (-20 ~ 60 °C)
Storage Temperature	14 ~ 122 °F (-10 ~ 50°C)
High Temp Cut-Off / Recovery	167 °F (75 °C) / 122°F (50 °C)
Low Temp Cut-Off / Recovery	32 °F (0 °C) / 41°F (5 °C)

DISCHARGE SPECIFICATIONS

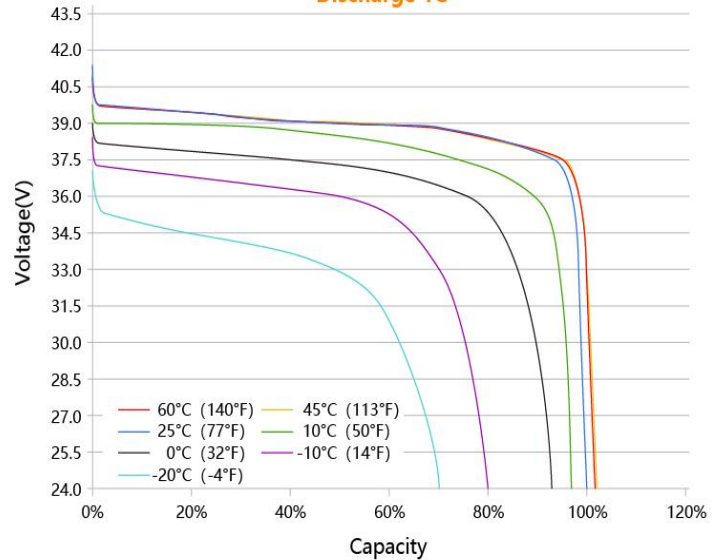
Max. Continuous Discharge Current	100A
Peak Discharge Current	500A (3-5s)
Max Depth of Discharge (DOD)	100%
Max. Load /Inverter Power	3840W

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
35.55	0%	40.2~41.4	100%
39.03	10%	40.14	90%
39.63	20%	40.11	80%
39.99	30%	40.11	70%
39.99	40%	39.78	60%
39.99	50%	39.69	50%
40.05	60%	39.63	40%
40.35	70%	39.45	30%
40.35	80%	39.12	20%
40.35	90%	38.73	10%
40.8	100%	35.55	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



RV, Camper



Solar



Trolling Motor

ALL-ROUND PROTECTION WITH BMS



Overcharge Protection



High/Low Temperature Protection



Short-circuit Protection



Over-discharge Protection



Overload Protection



Battery Cell Balancing