

Lithium Iron Phosphate (LiFePO4) Battery

LTH12-50 **12.8V50AH** **640Wh**

Features of LiFePO4 Battery

Longer Cycle Life
LiFePO4 batteries would be is five times than SLA batteries on cycle life

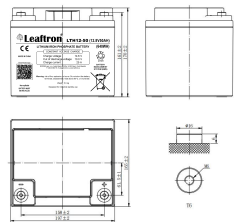
High Power & Light weight
LiFePO4 batteries performance twice power of SLA batteries, while half weight helpful for transport and installation

Intelligent management control
Intelligent BMS system covered by LFP batteries to ensure that batteries work on safety and perfect condition

Lower Self-discharge rate
Lower Self-discharge rate to guarantee LFP batteries be stored more longer than SLA batteries



Physical Dimension



Applications

- Wheelchairs and scooters
- UPS (replacement of SLA batteries)
- Solar/wind energy storage
- Golf trolleys & buggies
- Electric bikes

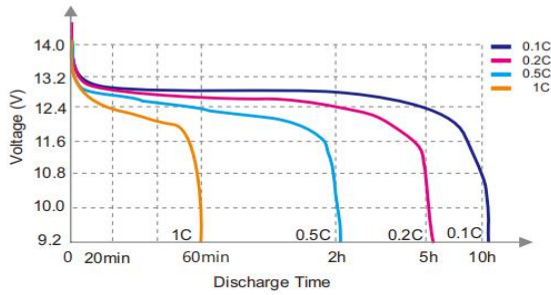
Electrical Characteristics	Chemistry	LiFePO4
	Nominal Voltage	12.8V
	Nominal Capacity	50Ah (C5,25°C)
	Energy	640Wh
	Internal Resistance	≤50 mΩ
	Cycle Life	>3000 cycles @1C 80%DOD
	Months Self Discharge	<3%
	Efficiency of Charge	100% @0.5C
Standard Charge	Efficiency of Discharge	96-99% @1C
	Charge Voltage	14.6±0.2V
	Charge Mode	0.2C to 14.6V, then 14.6V, charge current to 0.02C (CC/CV)
	Charger Current	25A
	Max. Charge Current	50A
Standard Discharge	Charge Cut-off Voltage	14.6V±0.2V
	Rated Discharge Current	25A
	Max Discharge Current	50A
	Max. Pulse Current	150A(<3s)
	Discharge Cut-off Voltage	10V
	Charge Temperature	0 °C to 45 °C
	Discharge Temperature	-20 °C to 60 °C
	Storage Temperature	0 °C to 40 °C
Mechanical	Water Dust Resistance	IP65
	BMS	50A with Bluetooth and with 1A Balancer (4S6P)
	Plastic Case	ABS
	Dimensions (mm.)	198 x 166 x 170 mm
	Weight about (kg.)	5.6 kg
	Terminal	M6

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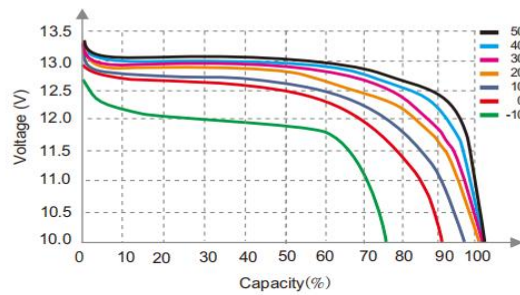
LTH12-50

12.8V50AH 640Wh

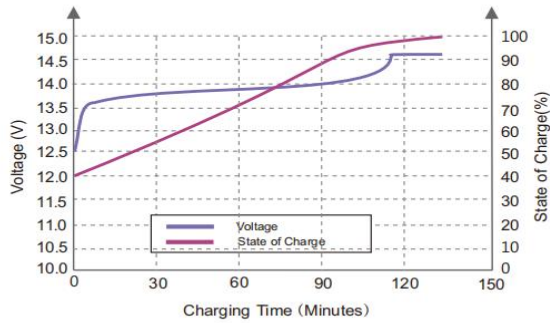
Different Rate Discharge Curve(25°C)



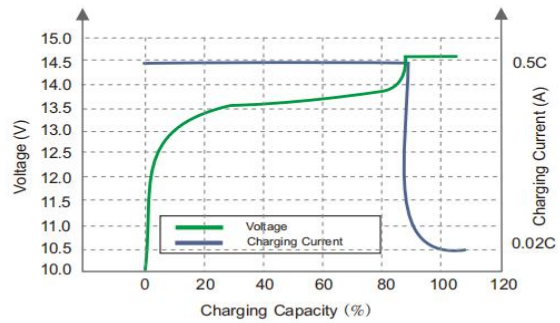
Different Temperature Discharge Curve(0.5C)



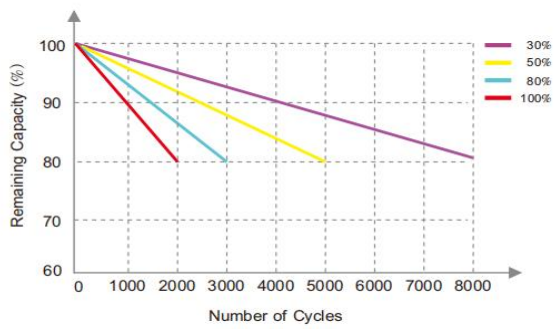
State of Charge Curve(0.5C, 25°C)



Charging Characteristics(0.5C, 25°C)



Different DOD Discharge Cycle Life Curve(1C)



Different Temperature Self Discharge Curve

