
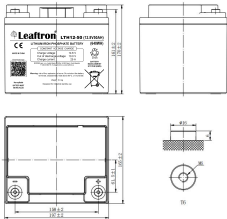


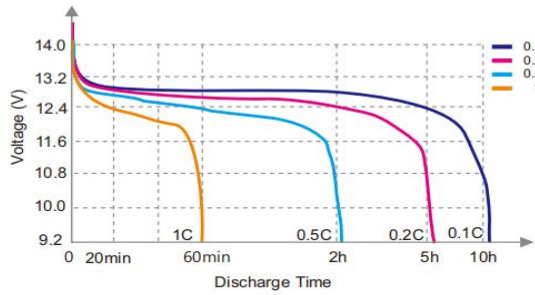
Lithium Iron Phosphate (LiFePO4) Battery		
LTH12-50		12.8V50AH    640Wh
Features of LiFePO4 Battery		
<b>Longer Cycle Life</b> LiFePO4 batteries would be is five times than SLA batteries on cycle life		
<b>High Power &amp; Light weight</b> LiFePO4 batteries performance twice power of SLA batteries, while half weight helpful for transport and installation		
<b>Intelligent management control</b> Intelligent BMS system covered by LFP batteries to ensure that batteries work on safety and perfect condition		
<b>Lower Self-discharge rate</b> Lower Self-discharge rate to guarantee LFP batteries be stored more longer than SLA batteries		
Physical Dimension		Applications
		<ul style="list-style-type: none"><li>•Wheelchairs and scooters</li><li>•UPS (replacement of SLA batteries)</li><li>•Solar/wind energy storage</li><li>• Golf trolleys &amp; buggies</li><li>• Electric bikes</li></ul>
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

# Lithium Iron Phosphate (LiFePO4) Battery

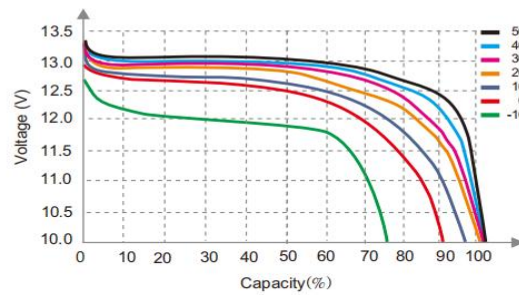
LTH12-50

12.8V50AH 640Wh

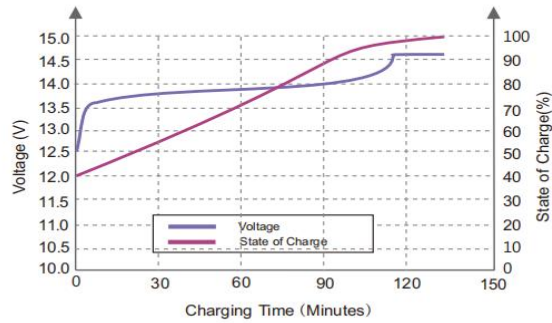
Different Rate Discharge Curve(25°C)



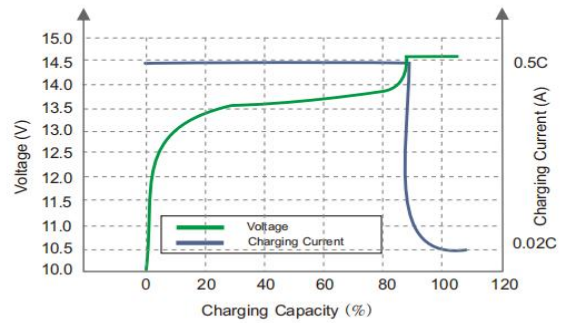
Different Temperature Discharge Curve(0.5C)



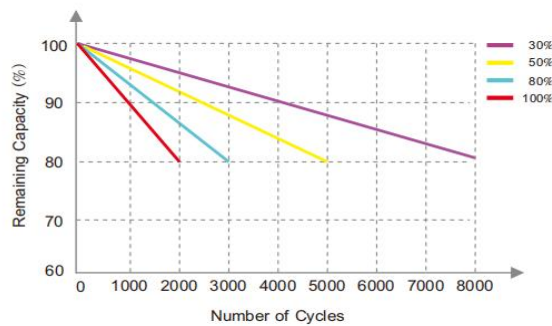
State of Charge Curve(0.5C, 25°C)



Charging Characteristics(0.5C, 25°C)



Different DOD Discharge Cycle Life Curve(1C)



Different Temperature Self Discharge Curve

