



Lithium Iron Phosphate (LiFePO4) Battery

VT12.8-50

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

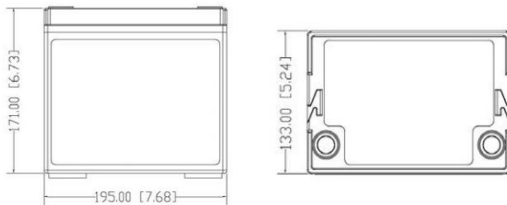
Intelligent BMS system covered by LFP batteries to ensure that batteries work on safety and perfect condition

Lower Self-discharge rate

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



Physical Dimension



Applications

- Caravan, RV, camping
- UPS (replacement of SLA batteries)
- Marine, golf cart
- Solar, wind system
- PV ,solar light

Electrical Characteristics	Chemistry	LiFePO4
	Nominal Voltage	12.8V
	Nominal Capacity	50Ah (C5,25°C)
	Energy	640Wh
	Internal Resistance	≤10 mΩ
	Cycle Life	>3000 cycles @1C 100%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	Max. Charge Current	50A
	Charge Cut-off Voltage	15.6V±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 (32Fto 113F) @60±25% Relative Humidity
Mechanical	Discharge Temperature	-20 °C to 60 °C (-4F to 140F) @60±25% Relative Humidity
	Storage Temperature	0 °C to 40 °C (32Fto 104F) @60±25% Relative Humidity
	Water Dust Resistance	IP65
	BMS	4S/4P SMART Bluetooth
	Plastic Case	ABS
Mechanical	Dimensions (in./mm.)	195*133*171mm
	Weight (lbs./kg.)	5.0kg(11.0lbs)
	Terminal	M6



Wuhan Vution Lithium Power Technology Co.,Ltd

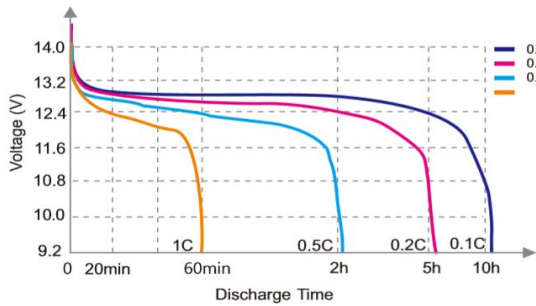
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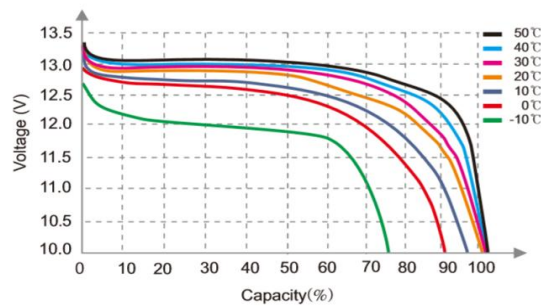
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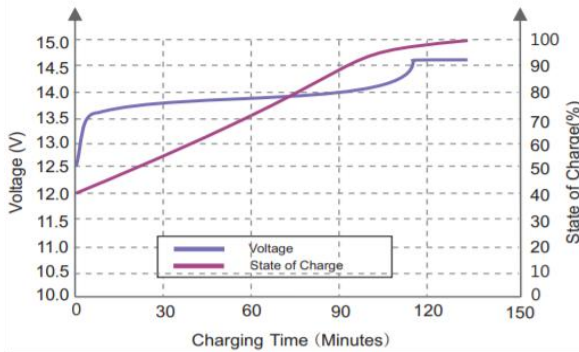
Different Rate Discharge Curve(25°C)



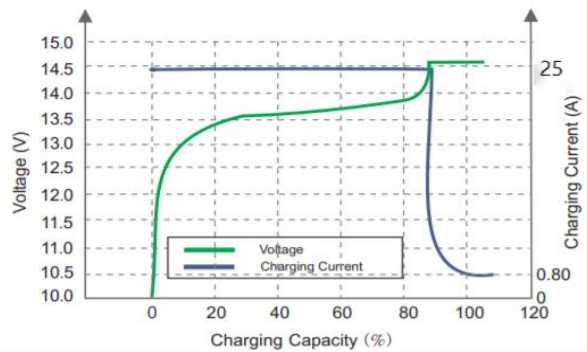
Different Temperature Discharge Curve(0.5C)



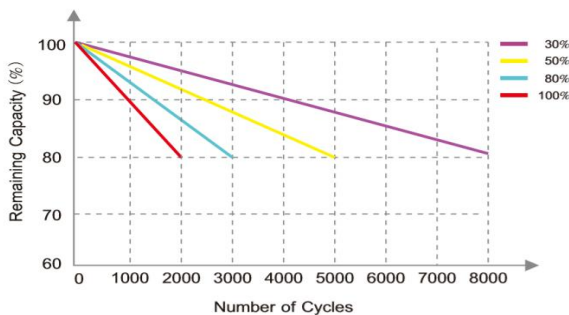
State of Charge Curve(0.5C, 25°C)



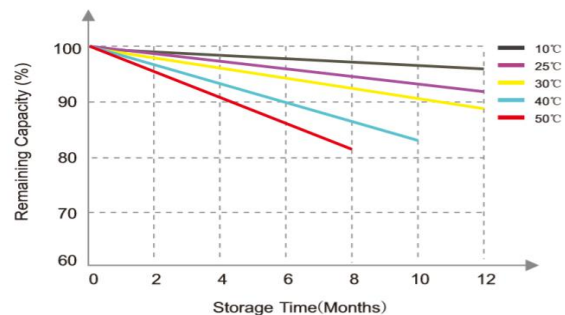
Charging Characteristics(0.5C, 25°C)



Different DOD Discharge Cycle Life Curve(1C)



Different Temperature Self Discharge Curve



Contact info

www.vutionlithium.com

Wuhan Vution Lithium Power Technology Co.,Ltd



Tel:+86 27 5952 3598
Email:jeffery@vutionlithium.com

Fax:+86 27 5952 3682
www.vutionlithium.com

Vution
International Sales Office

Add:24th Floor,Optics Valley Dingchuang International,Optics Valley Rare Eco Industrial Park,Wuhan,Hubei Province,China