



Lithium Iron Phosphate (LiFePO4) Battery

VT12.8-4.5

12.8V4.5AH 57.6Wh

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

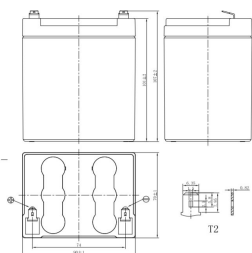
Intelligent BMS system covered by LFP batteries to ensure that batteries work on safety and perfect condition

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	4.5Ah (C5,25°C)
Energy	57.6Wh
Internal Resistance	≤50 mΩ
Cycle Life	>5000 cycles @1C 100%DOD
Months Self Discharge	<3%
Efficiency of Charge	100% @0.5C
Efficiency of Discharge	96-99% @1C

Standard Charge

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	2.25A
Max. Charge Current	4.5A
Charge Cut-off Voltage	15.6V±0.2V

Standard Discharge

Rated Discharge Current	2.25A
Max Discharge Current	4.5A
Max. Pulse Current	15A(<3s)
Discharge Cut-off Voltage	10V
Charge Temperature	0 °C to 45 °C (32Fto 113F) @60±25% Relative Humidity
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

Mechanical

BMS	4S/4P SMART Bluetooth
Plastic Case	ABS
Dimensions (in./mm.)	90 x 70 x 101 mm
Weight (lbs./kg.)	0.75kg(1.65 lbs)
Terminal	F1



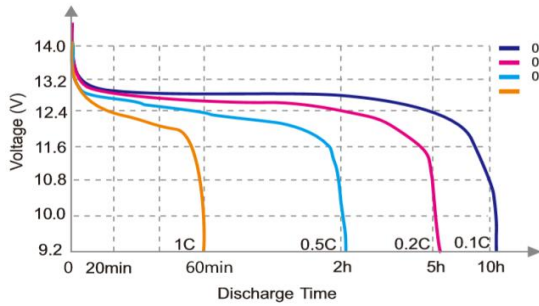
Wuhan Vution Lithium Power Technology Co.,Ltd

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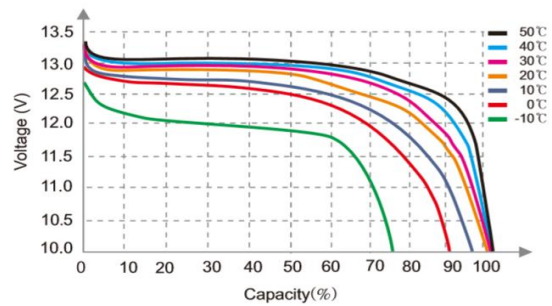
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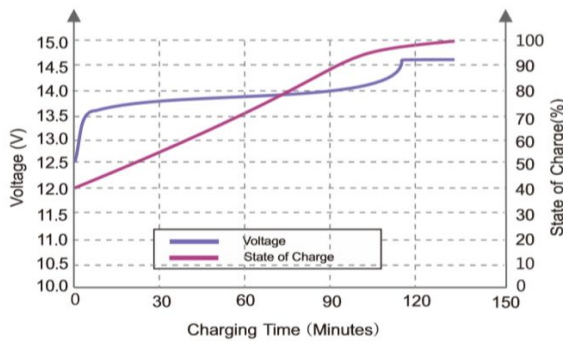
Different Rate Discharge Curve(25°C)



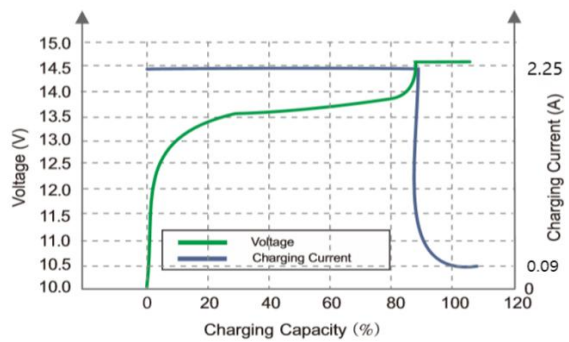
Different Temperature Discharge Curve(0.5C)



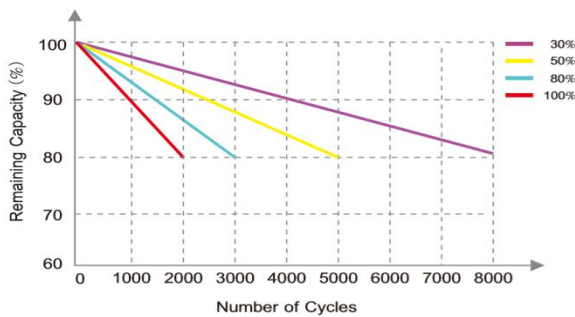
State of Charge Curve(0.5C, 25°C)



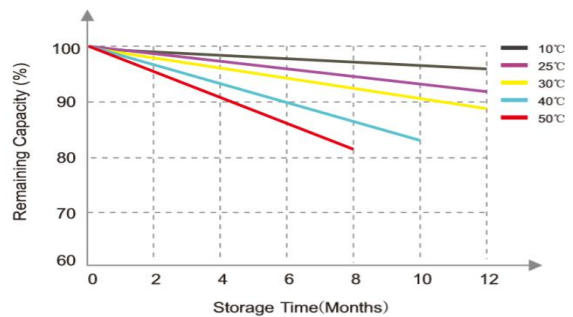
Charging Characteristics(0.5C, 25°C)



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:sales6@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

Vution Factory

Tel:+86 712 8655555
Email:sales6@vutionlithium.com

Fax:+86 712 8378825
www.vutionlithium.com

Add:Huaer Village,Xiannv Street Community,Hanchuan City,Hubei Province,China