



RAZORBACK LITHIUM

Lithium Iron Phosphate (LiFePO4) Battery

LFP12.8-50

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

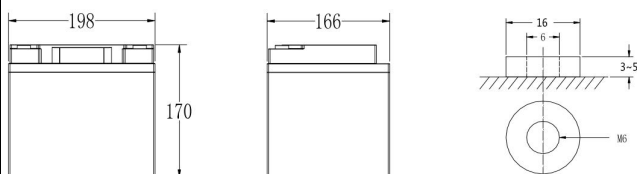
Intelligent BMS system covered by LFP batteries to ensure that batteries work on safety and perfect condition

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	≤30 mΩ
Cycle Life	>2500 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	25A
Max. Charge Current	50A
Charge Cut-off Voltage	15.6V±0.2V

Standard Discharge

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
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	IP67

Mechanical

BMS	50A 4S/4P
Plastic Case	ABS
Dimensions (in./mm.)	196 x 165 x 170 mm
Weight (lbs./kg.)	5.73kg(12.61lbs)
Terminal	M6



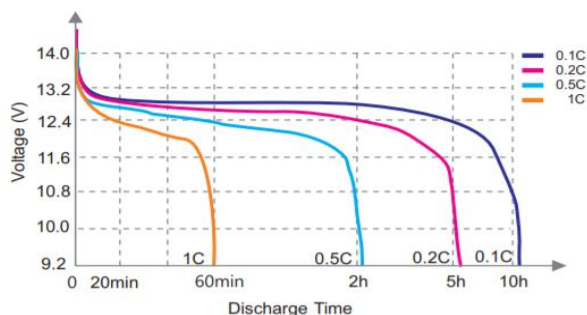
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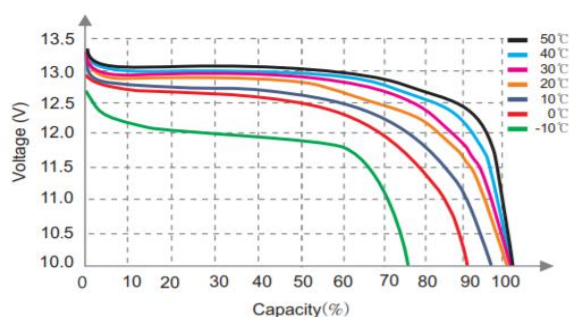
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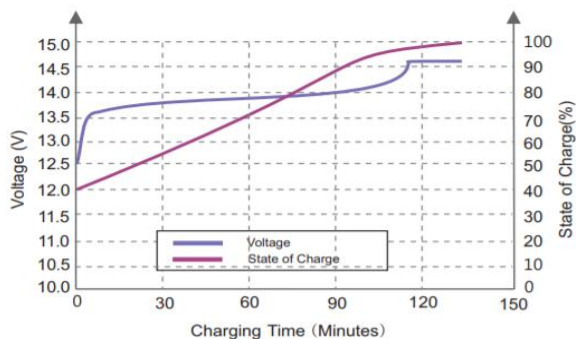
Different Rate Discharge Curve(25°C)



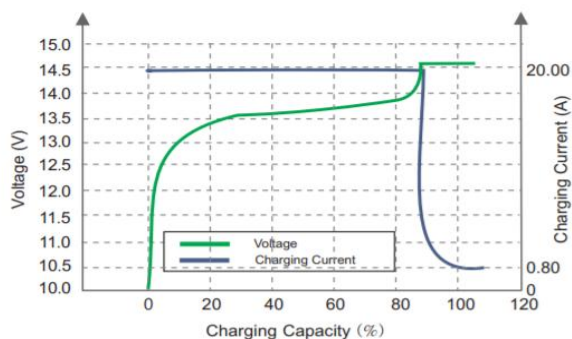
Different Temperature Discharge Curve(0.5C)



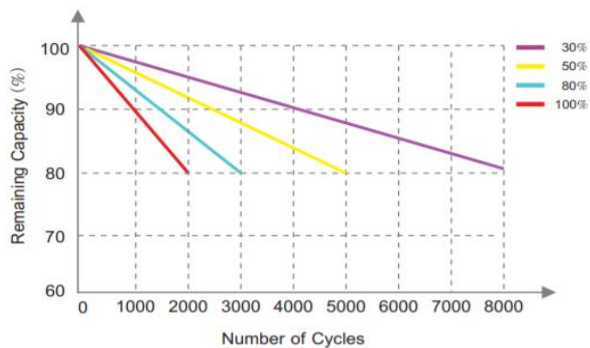
State of Charge Curve(0.5C, 25°C)



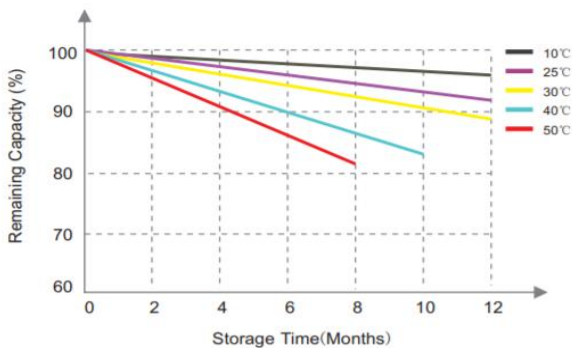
Charging Characteristics(0.5C, 25°C)



Different DOD Discharge Cycle Life Curve(1C)



Different Temperature Self Discharge Curve



Contact info

www.razorbackdc.com.au

Razorback DC Products



Tel : 0438 010 399

Email: info@razorbackdc.com.au

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