



# RAZORBACK LITHIUM

## Dual Purpose Deep Cycle Starting Lithium Battery

Razorstart 1400 - - 80D26R

Starting / Deep cycle / restart

### 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

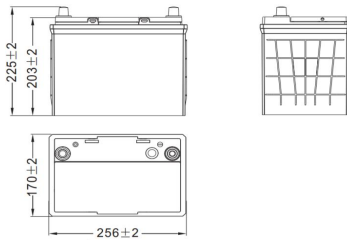
Intelligent BMS system covered by LFP batteries to ensure that batteries work on safety and perfect condition

#### Lower Self-discharge rate

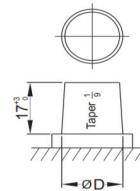
Lower Self-discharge rate to guarantee LFP batteries be stored more longer than SLA batteries



### Physical Dimension



### Standard Terminal



### Cell Layout



Figure(0)

Electrical Characteristics	Chemistry	LiFePO4
	Battery type	Restart type controlled by button
	Nominal Voltage	12.8V
	Nominal Capacity	60Ah (Main power 50Ah + reserve power 10Ah)
	Energy	768Wh
	Cold Cranking Amps	1400CCA (Main power 1400CCA, reserve power 300CCA)
	Internal Resistance	≤2.2 mΩ
	Cycle Life	≥1500 cycles
	Self Discharge Rate	≤30uA
	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)
	Rated Charge Current	≤30A
	Max. Charge Current	≤60A
	BMS Charge Cut-off Voltage	15.6V
	Over Charge Recovery Voltage	15.2V
Standard Discharge	Continuous Discharge Current	≤180A
	Instantaneous Discharge Current	1400A(5S)
	BMS Discharge Cut-off Voltage	8V
	Over Discharge Recovery Voltage	9.2V
	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
Mechanical	Water Dust Resistance	IP65
	BMS Withstand voltage value	30V
	Plastic Case	ABS
	Dimensions (in./mm.)	303*170*201*222mm ± 2mm
	Weight (lbs./kg.)	7.7kg(16.94lbs)
	Terminal	Brass



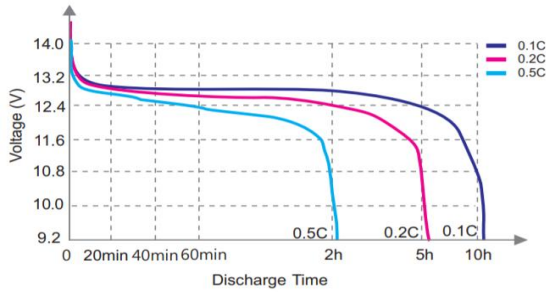
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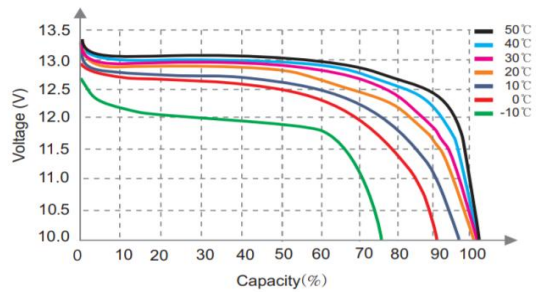
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Starting / Deep cycle / restart

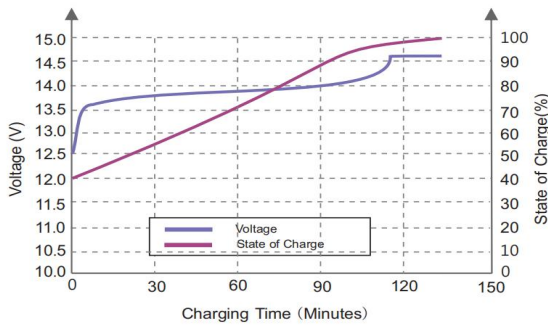
Different Rate Discharge Curve(25°C)



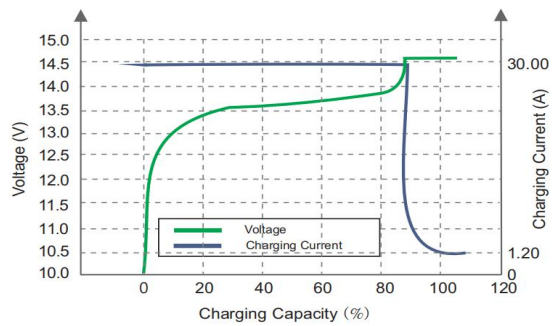
Different Temperature Discharge Curve(0.5C)



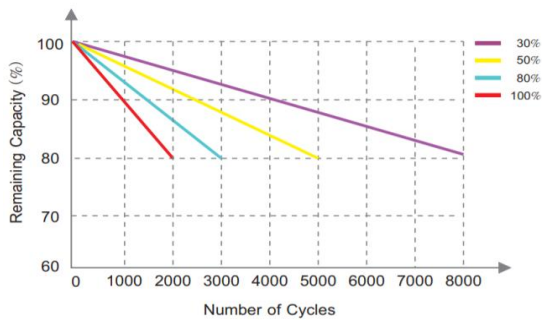
State of Charge Curve(0.5C, 25°C)



Charging Characteristics(0.5C, 25°C)



Different DOD Discharge Cycle Life Curve(0.5C)



Different Temperature Self Discharge Curve

