

## POWER LITHIUM BATTERIES

### Dual Purpose Deep Cycle Starting Lithium Battery

LFP12.8V55D23L

Starting / Deep cycle

#### 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

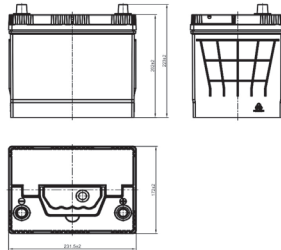
Intelligent BMS system covered by LFP batteries to ensure that batteries work on safety and perfect condition

##### Lower Self-discharge rate

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

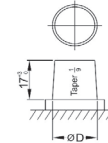


#### Physical Dimension



#### Standard Terminal

Terminal Type	D	
	Positive	Negative
1	19.5 <sup>+0.3</sup>	17.9 <sup>+0.3</sup>



Electrical Characteristics	Chemistry	LiFePO4
	Nominal Voltage	12.8V
	Nominal Capacity	40Ah
	Energy	512Wh
	Cold Cranking Amps	1200CCA
	Internal Resistance	≤2.2 mΩ
	Cycle Life	≥1500 cycles
	Self Discharge Rate	≤30uA
	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)
	Rated Charge Current	≤20A
	Max. Charge Current	≤40A
	BMS Charge Cut-off Voltage	15.6V
Standard Discharge	Over Charge Recovery Voltage	15.2V
	Continuous Discharge Current	≤150A
	Instantaneous Discharge Current	1200A(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
Mechanical	Storage Temperature	0 °C to 40 °C (32Fto 104F) @60±25% Relative Humidity
	Water Dust Resistance	IP56
	BMS Withstand voltage value	30V
	Plastic Case	ABS
	Dimensions (in./mm.)	232*172*200*221mm ± 2mm
	Weight (lbs./kg.)	5.5kg(12.10lbs)
	Terminal	Brass

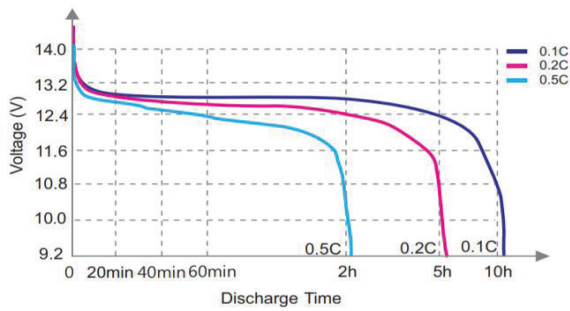
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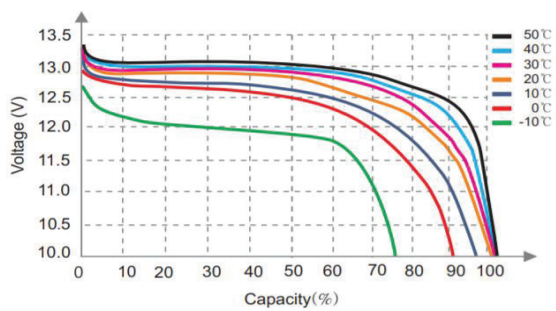
LFP12.8V55D23L

Starting / Deep cycle

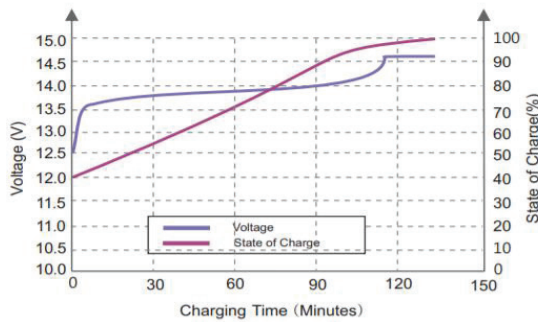
Different Rate Discharge Curve(25°C)



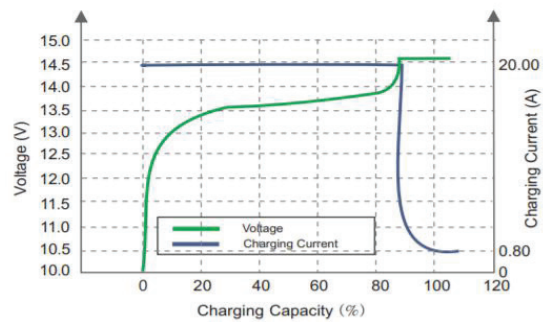
Different Temperature Discharge Curve(0.5C)



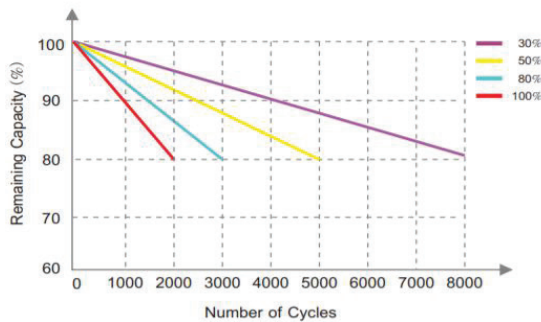
State of Charge Curve(0.5C, 25°C)



Charging Characteristics(0.5C, 25°C)



Different DOD Discharge Cycle Life Curve(1C)



Different Temperature Self Discharge Curve

