

### POWER LITHIUM BATTERIES

#### Dual Purpose Deep Cycle Starting Lithium Battery

LFP12.8VNX120-7L

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

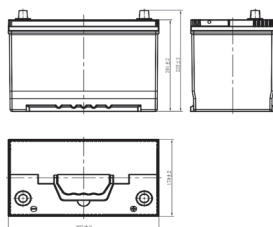
Intelligent BMS system covered by LFP batteries to ensure that batteries work on safety and perfect condition

###### Lower Self-discharge rate

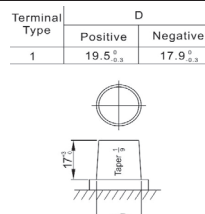
Lower Self-discharge rate to guarantee LFP batteries be stored more longer than SLA batteries



##### Physical Dimension



##### Standard Terminal



##### Electrical Characteristics

Chemistry	LiFePO4
Nominal Voltage	12.8V
Nominal Capacity	80Ah
Energy	1024Wh
Cold Cranking Amps	1600CCA
Internal Resistance	≤1.9 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	≤40A
Max. Charge Current	≤80A
BMS Charge Cut-off Voltage	15.6V
Over Charge Recovery Voltage	15.2V

##### Standard Discharge

Continuous Discharge Current	≤180A
Instantaneous Discharge Current	1600A(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
Water Dust Resistance	IP56

##### Mechanical

BMS Withstand voltage value	30V
Plastic Case	ABS
Dimensions (in./mm.)	303*170*201*222mm ± 2mm
Weight (lbs./kg.)	9.8kg(21.56lbs)
Terminal	Brass

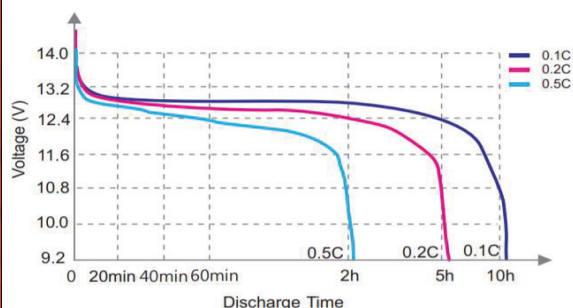
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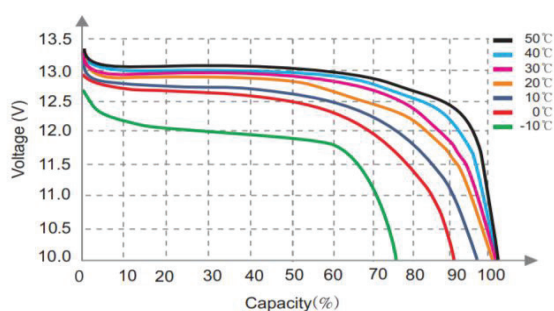
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Starting / Deep cycle

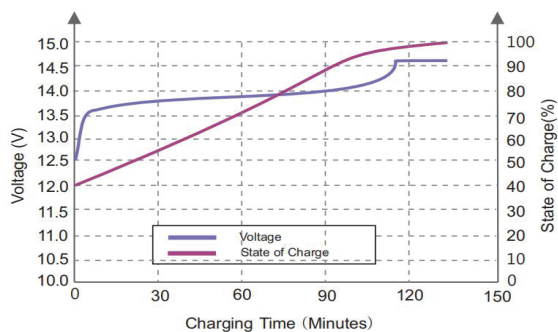
Different Rate Discharge Curve(25°C)



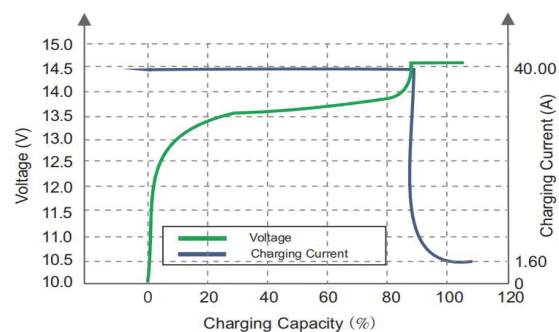
Different Temperature Discharge Curve(0.5C)



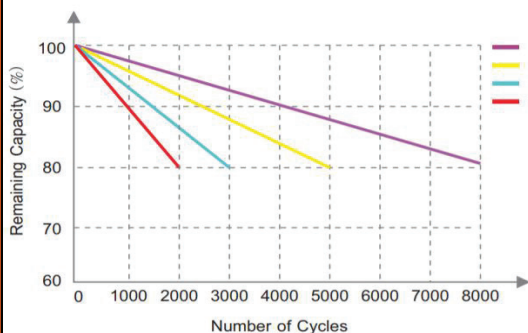
State of Charge Curve(0.5C, 25°C)



Charging Characteristics(0.5C, 25°C)



Different DOD Discharge Cycle Life Curve(0.5C)



Different Temperature Self Discharge Curve

