

Bluetooth (LiFePO4) Battery SLAUMXLI120-12BLU (12.8V, 120AH)



Features of LiFePO4 Battery

- **Longer Cycle Life:** Offers up to 20 times longer cycle life and five times longer float/calendar life than lead acid battery, helping to minimize replacement cost and reduce total cost of ownership.
- **Lighter Weight:** About 40% of the weight of a comparable lead acid battery. A 'drop in' replacement for lead acid batteries.
- **Higher Power:** Delivers twice power of lead acid battery, even high discharge rate, while maintaining high energy capacity.
- **Wider Temperature Range:** -20°C~60°C.
- **Superior Safety:** Lithium Iron Phosphate chemistry eliminates the risk of explosion or combustion due to high impact, overcharging or short circuit situation.
- **Increased Flexibility:** Modular design enables deployment of up to four batteries in series and up to ten batteries in parallel.

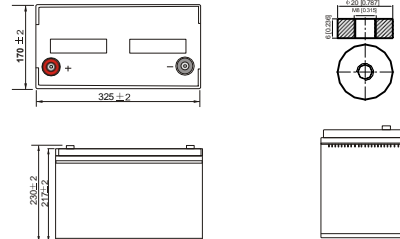
Specification

Nominal Voltage		12.8V
Rated capacity (20hour rate)		120Ah
Dimensions	Total Height	325 mm
	Height	220 mm
	Length	325 mm
	Width	170 mm
Weight Approx		12.5 Kg

Characteristics

Charge Discharge Properties	Efficiency of Charge	100% at 0.5C
	Efficiency of Discharge	97% at 1C
	Cycle Life	>80% retention at 2000 cycles
Charge Characteristics	Over current protection 400±20A	10ms-300ms
	Internal Resistance	<10 mΩ
	Charge Voltage	14.6±0.1V
Discharge Characteristics	Charge Current	≤100A
	Charge Cut-off Voltage	14.6±0.1V
	Max Continuous Current	100A
Temperature	Peak Discharge Current	300A(<3s)
	Discharge Cut-off Voltage	10V
	Charge Temperature	0°C-45°C(32°F-113°F)
Humidity	Discharge Temperature	-20°C-60°C(-4°F-140°F)
	Storage Temperature	0°C-40°C(32°F-104°F)
Shell material		ABS plastic

Physical Dimension



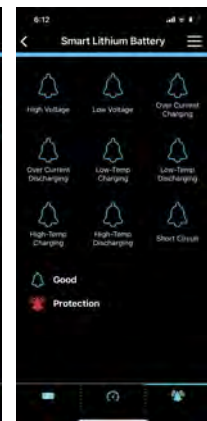
Application

- Electric vehicles, electric mobility
- Solar/wind energy storage system
- UPS, backup power
- Telecommunication
- Medical equipment
- Lighting

Bluetooth App Description

For Apple mobile phone, search and download "UMXLI Battery"
For Android mobile phone, search and download "UMXLI BMS"

Interface of APP:



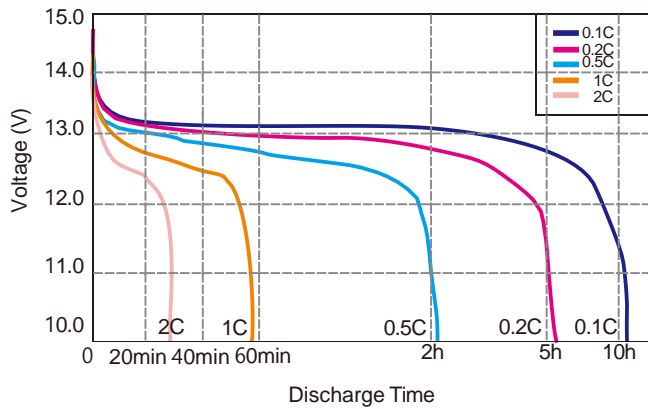
BMS Reset / ON-OFF Button

If the battery seems to stop working, please refer to this video in order to reset. <https://www.youtube.com/watch?v=ul7Nggltdlg>



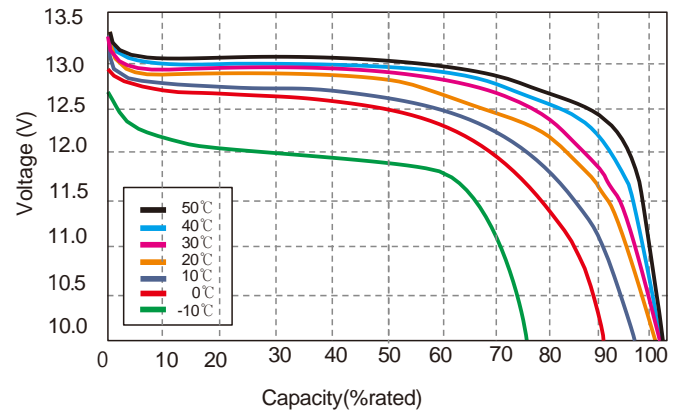
Different Rate Discharge Curve

Different Rate Discharge Curve @25°C



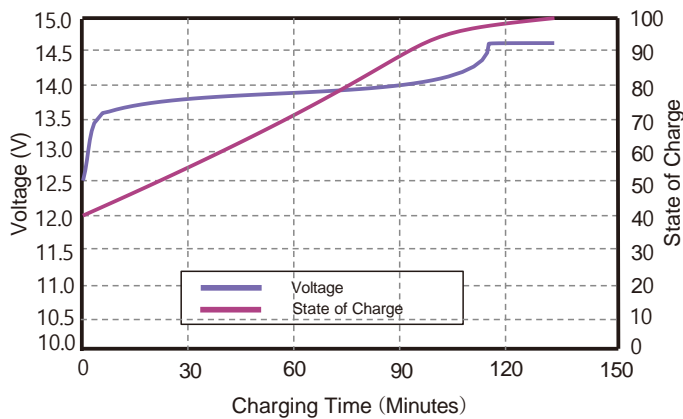
Different Temperature Discharge Curve

Different Temperature Discharge Curve @0.5C



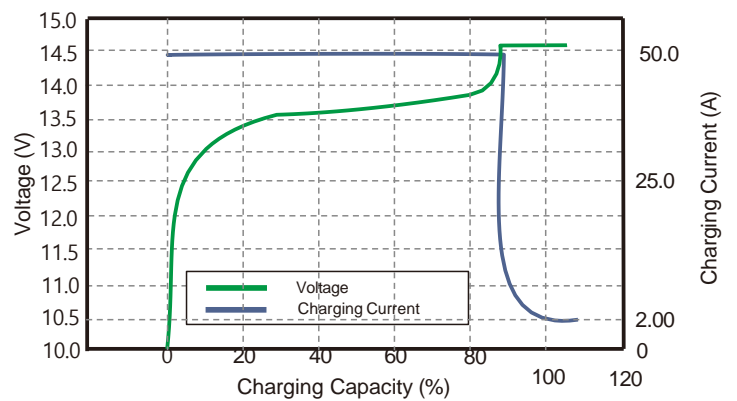
State of Charge Curve

State of Charge Curve @0.5C 25°C



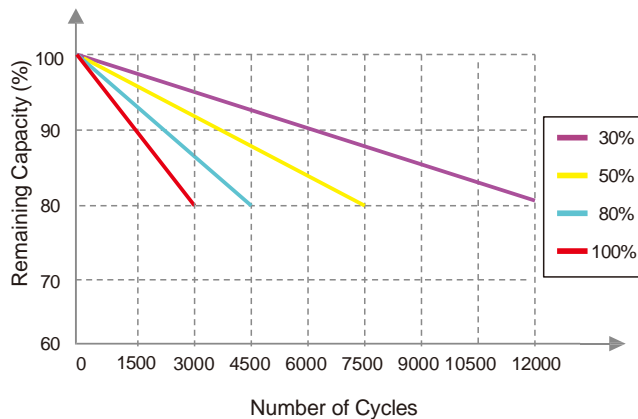
Charging Characteristics

Charging Characteristics @0.5C 25°C



Cycle Life Curve

Different DOD Discharge Cycle Life Curve @1C



Self Discharge Characteristics Curve

Different Temperature Self Discharge Curve

