



**YANGTZE BATTERY**

# Lithium Iron Phosphate (LiFePO<sub>4</sub>) Battery

## LiFeLi-1220M (12.8V21Ah)

### Features Of LiFePO<sub>4</sub> 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.

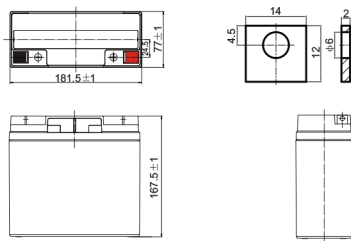
**Higher Power:** Delivers twice power of lead acid battery, even high discharge rate, while maintaining high energy capacity.

**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.



### Physical Dimension-mm



### Typical Applications

- Wheelchairs and scooters
- Solar/wind energy storage
- Back-up power for small UPS
- Golf trolleys & buggies
- Electric bikes
- Tools

### Specification

Electrical Characteristics	Nominal Voltage	12.8V
	Nominal Capacity	21Ah
	Energy	268.8Wh
	Internal Resistance(AC)	≤50mΩ
	Cycle Life	>2000 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)
	Charge Current	10A
	Max. Charge Current	20A
	Charge Cut-off Voltage	15.6V±0.2V
Standard Discharge	Continuous Current	40A
	Max. Pulse Current	50A(<3s)
	Discharge Cut-off Voltage	8V
Environmental	Charge Temperature	0℃ to 55℃ (32F to 131F) @60±25% Relative Humidity
	Discharge Temperature	-20℃ to 60℃ (-4F to 140F) @60±25% Relative Humidity
	Storage Temperature	-20℃ to 45℃ (-4F to 113F) @60±25% Relative Humidity
	IP Class	IP65
Mechanical	Plastic Case	ABS
	Approx. Dimensions	181.5mm*77mm*167.5mm (7.15in.*3.03in.*6.59in.)
	Approx. Weight	3.00kg (6.61lbs)
	Terminal	T3

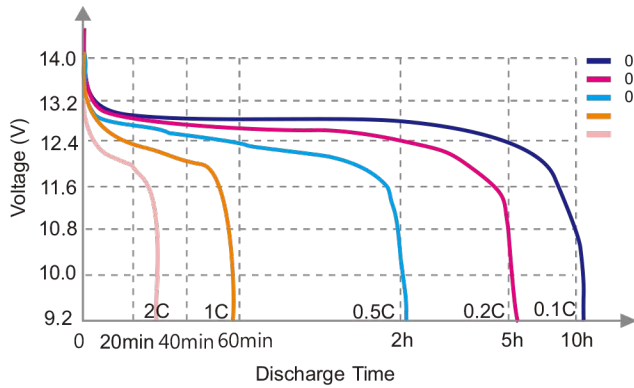


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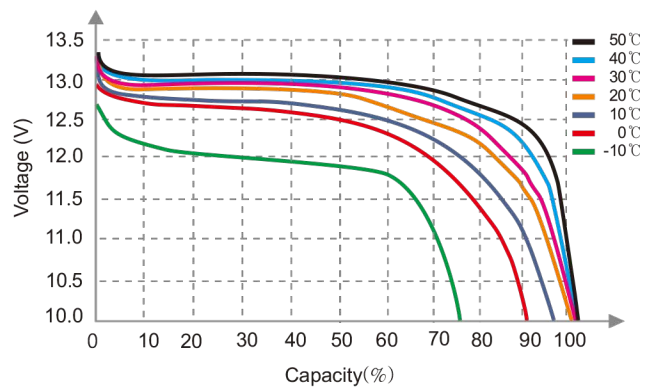
# Lithium Iron Phosphate (LiFePO<sub>4</sub>) Battery

## LFeLi-1220M (12.8V20Ah)

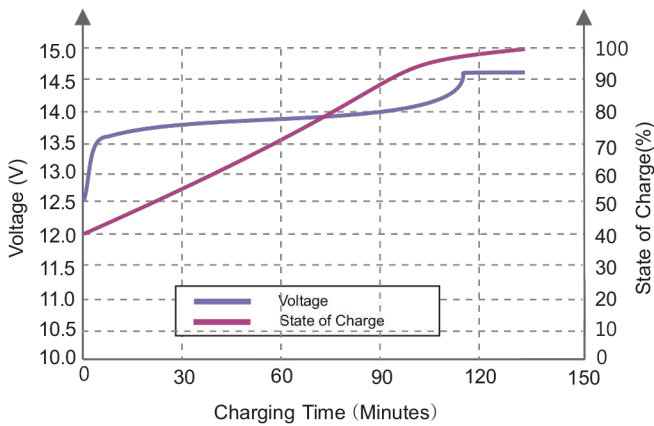
**Different Rate Discharge Curve(25°C)**



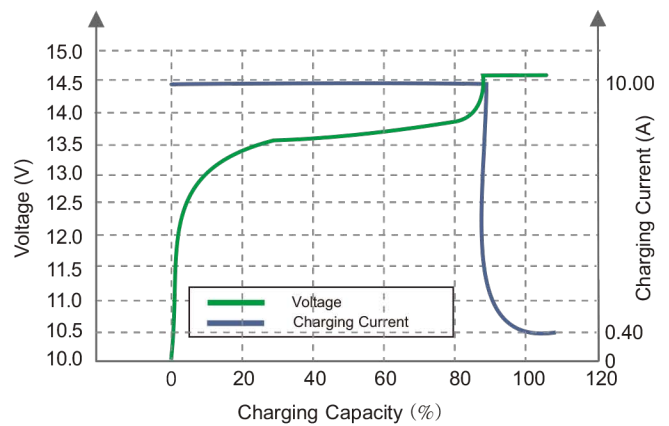
**Different Temperature Discharge Curve(0.5C)**



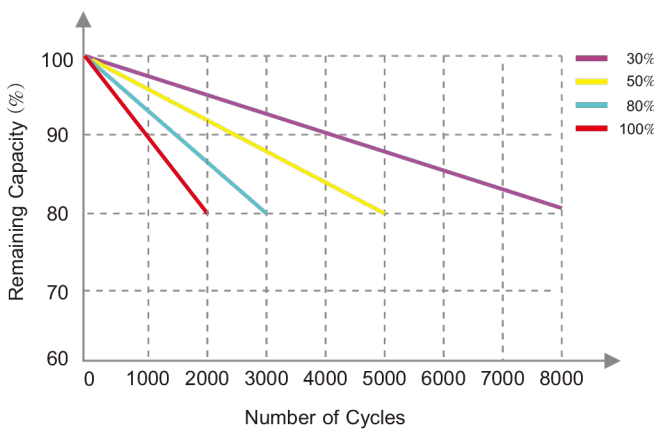
**State of Charge Curve(0.5C, 25°C)**



**Charging Characteristics(0.5C, 25°C)**



**Different DOD Discharge Cycle Life Curve(1C)**



**Different Temperature Self Discharge Curve**

