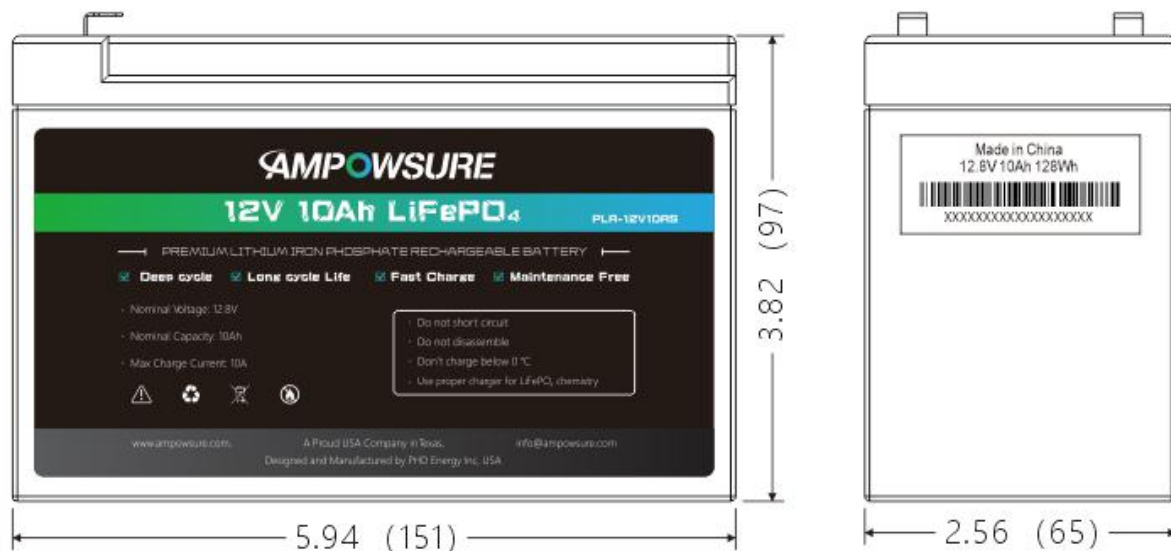


## Lithium Iron Phosphate Battery $\text{LiFePO}_4$

**Nominal Voltage: 12.8V**

**Rated Capacity: 10Ah**

### Dimensions: in (mm)



### Features

- **Wider temperature range:**  $-20^{\circ}\text{C}\sim 60^{\circ}\text{C}$ .
- **Lighter weight:** About 40%~ 50% of the weight of the comparable lead-acid battery, making it much easier to handle and transport.
- **Advanced power:** Delivers twice the power of the lead-acid battery.
- **Superior safety:** Using the lithium iron phosphate cell, greatly reduces the risk of explosion or combustion due to high impact, overcharging, or short-circuiting.
- **Extraordinary cycle life:** Offers up to 2000 times cycle life, much longer than a lead-acid battery, minimizing replacement cost and reducing the total cost of ownership.
- **Optional increased flexibility:** Link up to four batteries in series and eight batteries in parallel.
- **Voltage:** Uniform voltage during discharge.

### Applications

- Medical equipment
- Electric vehicles, electric mobility scooters, chairs, etc
- Robotics, toys
- UPS backup power
- Lighting
- Solar & wind power systems

## General Specifications

	Performance Specifications	General Parameters	Comments
<b>Electrical Characteristics</b>	Nominal Voltage	12.8V	
	Nominal Capacity	10Ah	Standard charge after Standard discharge
	Energy	128Wh	
	Cell Combination	4S3P	
	Months Self Discharge	≤3.5% per month	@25°C (77°F)
	Cycle Life	>2000 Cycles 80% of initial capacity	0.5C Charge/1C Discharge at 100%DOD
	Internal Resistance	≤ 50mΩ	@50%SOC
<b>Charge Specifications</b>	Charge Voltage	14.6V	
	Recommended Charge Voltage	14.0~14.4V	
	Standard Charge	At 25°C temperature, 5A constant current (CC) charge to 14.6V, then constant voltage (CV) 14.6V charge until charge current declines to 0.5A	
	Max.Charge Current	≤10A	@25°C (77°F)
	Charge Cut-off Voltage	14.6V	Release at 13.8V
<b>Discharge Specifications</b>	Standard Discharge	≤5A	@25°C (77°F)
	Max. Continuous Discharge Current	≤20A	@25°C (77°F)
	Max.Pulse Current	100A(<1s)	@25°C (77°F)
	Discharge Cut-off Voltage	10.0V	Release at 12.0V
<b>Environmental Specifications</b>	Charge Temperature	0 to 50°C(32 to 122°F)	@65±20% Relative Humidity
	Discharge Temperature	-20 to 60°C(-4 to 140°F)	
	Storage Temperature	-20 to 45°C(-4 to 113°F)	
	IP Rating	IP55	
<b>Mechanical Specifications</b>	Length*Width*Height	5.94*2.56*3.82inch 151*65*97mm	Height without terminals
	Case Material	ABS	
	Weight	Approx. 1.36Kg	
	Terminals	F2	