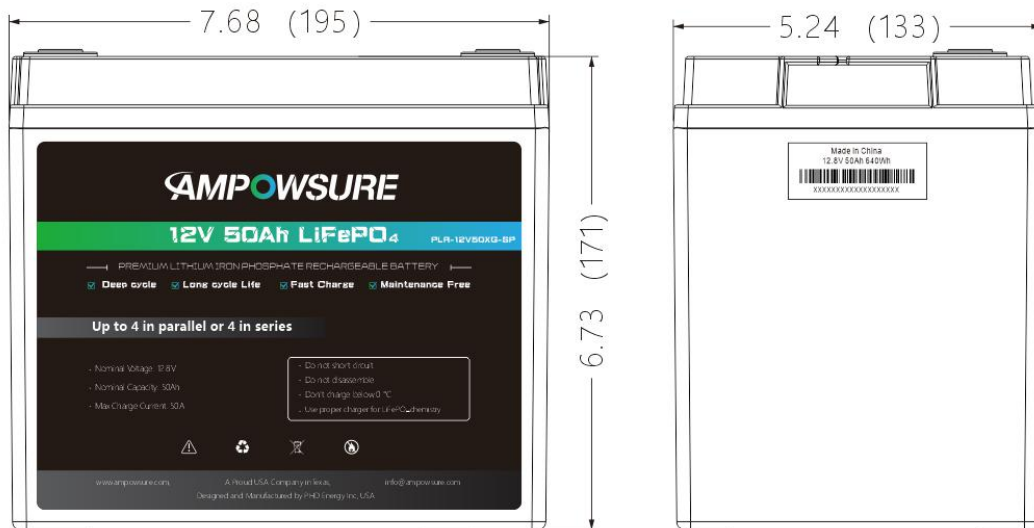


Lithium Iron Phosphate Battery LiFePO_4

Nominal Voltage: 12.8V

Rated Capacity: 50Ah

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
Electrical Characteristics	Nominal Voltage	12.8V	
	Nominal Capacity	50Ah	Standard charge after Standard discharge
	Energy	640Wh	
	Cell Combination	4S1P	
	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	≤ 40mΩ	@50%SOC
Charge Specifications	Charge Voltage	14.6V	
	Recommended Charge Voltage	14.0~14.4V	
	Standard Charge	At 25°C temperature, 25A constant current (CC) charge to 14.6V, then constant voltage (CV) 14.6V charge until charge current declines to 2.5A	
	Max.Charge Current	≤50A	@25°C (77°F)
	Charge Cut-off Voltage	14.6V	Release at 14.0V
Discharge Specifications	Standard Discharge	≤25A	@25°C (77°F)
	Max. Continuous Discharge Current	≤50A	@25°C (77°F)
	Max.Pulse Current	130A(<2s)	@25°C (77°F)
	Discharge Cut-off Voltage	9.6V	Release at 12.0V
Environmental Specifications	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	
Mechanical Specifications	Length*Width*Height	7.68*5.24*6.73inch 195*133*171mm	Height without terminals
	Case Material	ABS	
	Weight	Approx. 6Kg	
	Terminals	M6	