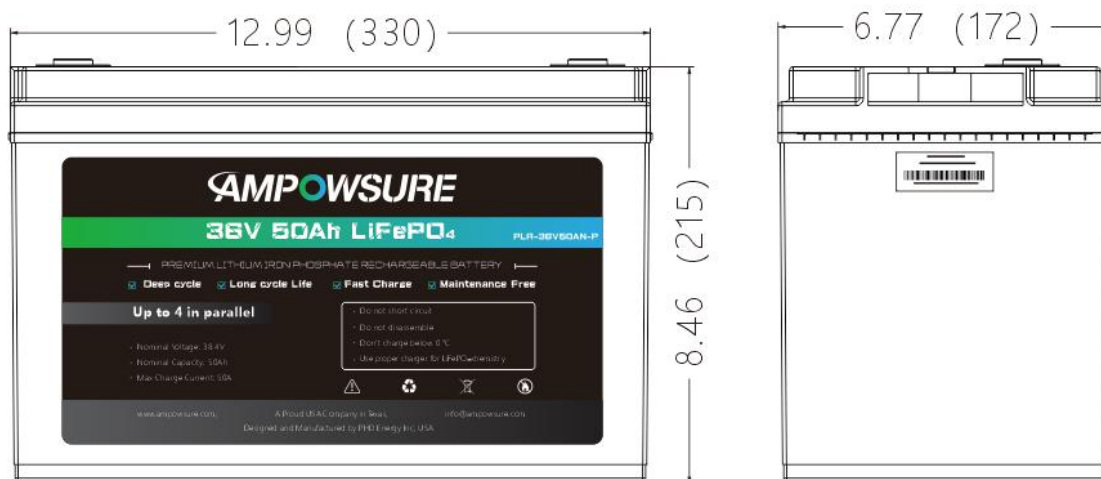


Lithium Iron Phosphate Battery LiFePO_4

Nominal Voltage: 38.4V

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	38.4V	
	Nominal Capacity	50Ah	Standard charge after Standard discharge
	Energy	1920Wh	
	Cell Combination	12S1P	
	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	≤ 45mΩ	@50%SOC
Charge Specifications	Charge Voltage	43.8V	
	Recommended Charge Voltage	42.0~43.2V	
	Standard Charge	At 25°C temperature, 25A constant current (CC) charge to 43.8V, then constant voltage (CV) 43.8V charge until charge current declines to 2.5A	
	Max.Charge Current	≤50A	@25°C (77°F)
	Charge Cut-off Voltage	43.8V	Release at 41.4V
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	30.0V	Release at 36.0V
Environmental	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	Length*Width*Height	12.99*6.77*8.46inch 330*172*215mm	Height without terminals
	Case Material	ABS	
	Weight	Approx. 18.5Kg	
	Terminals	M8	