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# 62V 6A LiFePO4 Battery Charger For 54.4V 17S LFP Cells Pack Specification

Phonix Charger – Custom Smart Battery Charger Manufacturer

LiFePO4 Battery Charger: <https://phonixcharger.com/lifepo4-battery-charger/>

## Product Overview

This technical data sheet describes a 62V 6A 372W LiFePO4 Battery Charger designed for charging 17S 54.4V LiFePO4 battery packs. The charger provides stable constant current and constant voltage charging optimized for LiFePO4 battery chemistry.

The 62V 6A LiFePO4 battery charger is designed for charging 54.4V lithium iron phosphate (LFP) battery packs used in a wide range of applications, including electric scooters, e-bikes, power tools, portable power stations, solar energy storage systems, alarm and security systems, UPS backup power, industrial equipment, robotics, marine electronics, and other devices powered by 17-cells (17S) LiFePO4 batteries. The charger follows a safe multi-stage charging profile including pre-charge, constant current (CC), constant voltage (CV), and automatic charge termination.

Phonix provides OEM and ODM solutions for custom battery charging systems. As a Custom Battery Charger manufacturer, Phonix also offers custom smart charger design services for lithium, LiFePO4, lead-acid, and NiMH battery applications.

## Key Features

- Brand: Phonix®
- Model: FX62006000
- AC Input: 100~240V
- DC Output: 62V 6A
- Charge Process: Pre-charge, CC, CV and Automatically Cut-off
- Charger Indicator: With Double color LED for power capacity show
- Output Protections: OVP, OCP, Shorted, Reversed
- Safety Approval: CE, UL, TUV, FCC, PSE, CCC
- Multi-stage charging: Pre-charge, CC, CV and automatic cut-off
- Designed for 17S 54.4V LiFePO4 battery packs
- Wide AC input range 100 ~ 240V AC
- LED charging status indicator
- Multiple protections: OVP, OCP, short circuit and reverse protection
- Industrial compact design
- OEM / ODM customization available

## Technical Specifications

FX62003000 62V 6A LiFePO4 Battery Charger for 17S 54.4V Cells Pack		
Item	Specification	Remark
<b>1.Input</b>		
Rating input voltage	100~240 Vac, 50/60 Hz	
Input voltage range	100~264 Vac	
Rating input current	4.0 A/RMS	Input:100V Output: Full load
Max input power	400W	Input:100V Output: Full load
<b>2.Output</b>		
No load output voltage		
Output voltage range	DC 54.4V~ 62V	
Charging current	6A ±10%	
Charging voltage	DC 62V±0.2 V	
Pre-charge	0.6A ± 10%	Voltage ≤34V (battery discharge voltage)
Charge-end current	≤0.6A±10%	
Suit with battery type	17S 54.4V LiFePO <sub>4</sub> Battery	
Timer	-	
Max output power	372W	
Ripple voltage	≤620mV	Full load
Power LED	Red	Power on
Charging LED	All off	No battery
	All on (or Green on)	Finished
	All flashing	Error
	Flashing one by one	Charging
Shorted	Yes	
Reversed	Yes	
Efficiency	≥93%	Full load @220V
<b>3.Environment</b>		
Operate temperature	-10 ~ +40°C	
Operate humidity	< +50%	Relative humidity
Storage temperature	-40 ~ +70°C	
Storage humidity	0 ~ +55%	Relative humidity
Cooling	Natural	
Vibration resistance	5MM / 50HZ/600S	Non-operating condition
Impact resistance	1 meter drop test 3 times	Non-operating condition
<b>4.Mechanical</b>		

Net Weight	1720g	
Size	233*108*64mm	Casing only
Connector	Refer to order	
<b>5.Safety</b>		
Max. temperature rise	< 40°C on casing	
Safety approval	CE/TUV/FCC/PSE/CCC	
MTBF	50000 H	
ESD	8.0 KV	
Hi-Pot Insulation	i/p to o/p: 3000V (1 min)	
Warranty	5 years	

## Typical Applications

- 17S 54.4V LiFePO4 battery packs,
- Electric scooters, e-bikes, power tools, power equipment, marine equipment, and light EV batteries
- Portable power stations and mobile power systems
- Solar energy storage and off-grid applications
- Backup power systems and UPS
- Security, alarm and surveillance systems
- Emergency lighting systems
- Industrial automation and robotics equipment
- Marine electronics and RV battery systems
- Portable medical and testing devices
- OEM / ODM custom LiFePO4 battery charging solutions

## Manufacturer Information

Manufacturer: Phonix

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**Official Website:** <https://phonixcharger.com>

**Product Page:**

<https://phonixcharger.com/62v-6A-lifepo4-battery-charger-for-17s-54-4v-lfp-cells-pack/>



Phonix 54.4V-62V 6A LiFePO4 Battery Charger for 17S LFP Batteries Pack