

54.8V 2A LiFePO4 Battery Charger for 47.2V 15S LFP Cells Pack

Technical Data sheet

Phonix Charger – Custom Smart Battery Charger Manufacturer

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

Product Overview

This technical data sheet describes a 54.8V 2A 109.6W LiFePO4 Battery Charger designed for charging 15S 47.2V LiFePO4 battery packs. The charger provides stable constant current and constant voltage charging optimized for LiFePO4 battery chemistry.

The 54.8V 2A LiFePO4 battery charger is designed for charging 47.2V 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 15-cells (15S) 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

- Multi-stage charging: Pre-charge, CC, CV and automatic cut-off
- Designed for 15S 47.2V LiFePO4 battery packs
- Wide AC input range 100 ~ 240V AC
- LED charging status indicator
- Multiple protections: OVP, OCP, short circuit and reverse protection
- High efficiency design $\geq 86\%$
- Industrial compact design
- OEM / ODM customization available

Technical Specifications

Parameter	Specification
Brand	Phonix
Model	FX54802000
AC Input	100~240V, 50/60Hz
Input Voltage Range	AC 90~264V
Rated Input Current	1.27A at 100Vac input
Max Input Power	127W
DC Output Voltage MAX	DC 54.8V
Output Voltage Range	DC 47.2V ~ 54.8V,
Charging Voltage	54.8V±10% , CV Mode.
Charging Current	2A ±5%
Pre-charge Current	0.2A
Charge End Current	≤0.2A ±10%
Output Max Power	109.6W
Battery Type	15S 47.2V LiFePO4 Battery (15S 47.2V LFP Cells Pack)
Efficiency	≥86%
Ripple Voltage	≤520 mV
Operating Temperature	-10°C ~ +40°C
Storage Temperature	-40°C ~ +70°C
Humidity	0 ~ 95% RH
Cooling	Natural cooling
Size	154*60*36mm
Weight	450g
Safety Certifications	CE / UL / TUV / FCC / PSE / CCC / SAA / RCM / WEEE
MTBF	50000 Hours
Warranty	5 years

Typical Applications

- 15S 47.2V 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

Whatsapp: +86-19124269133

Email: sales@phonixcharger.com

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

Product Page: <https://phonixcharger.com/54-8v-2a-lifepo4-battery-charger-for-15s-47-2v-lfp-cell-pack/>



Phonix 54.8V 2A LiFePO4 Battery Charger for 15S Batteries Pack