

# 22V 5A LiFePO4 Battery Charger for 19V 6S LFP Cells Pack Technical Datasheet

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Phonix Charger – Custom Smart Battery Charger Manufacturer

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

## Product Overview

This technical datasheet describes a 22V 5A 110W LiFePO4 Battery Charger designed for charging 6S 19V LiFePO4 battery packs. The charger provides stable constant current and constant voltage charging optimized for LiFePO4 battery chemistry.

The 22V 5A LiFePO4 battery charger is designed for charging 19V 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 6-cell (6S) 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 6S 19V 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  $\geq 93\%$
- Industrial compact design
- OEM / ODM customization available

## Technical Specifications

| Parameter             | Specification                                  |
|-----------------------|--|
| Brand                 | Phonix   |
| Model                 | FX22005000                                     |
| AC Input              | 100~240V, 50/60Hz                              |
| Input Voltage Range   | AC 90~264V                                     |
| Rated Input Current   | 1.28A at 100Vac input                          |
| Max Input Power       | 128W   |
| DC Output Voltage MAX | DC 22V   |
| Output Voltage Range  | DC 19V ~ 22V,                                  |
| Charging Voltage      | 22V $\pm$ 10% , CV Mode.                       |
| Charging Current      | 5A $\pm$ 5%                                    |
| Pre-charge Current    | 0.5A   |
| Charge End Current    | $\leq$ 0.5A $\pm$ 10%                          |
| Output Max Power      | 110W   |
| Battery Type          | 6S 19V LiFePO4 Battery (6S 19V LFP Cells Pack) |
| Efficiency            | $\geq$ 93%                                     |
| Ripple Voltage        | $\leq$ 180 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   |

| Parameter             | Specification                                      |
|-----------------------|--|
| Safety Certifications | CE / UL / TUV / FCC / PSE / CCC / SAA / RCM / WEEE |
| MTBF                  | 50000 Hours  |
| Warranty              | 5 years  |

## Typical Applications

- 6S 19V LiFePO4 battery packs
- Electric scooters, e-bikes 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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### Product Page:

<https://phonixcharger.com/22v-5a-lifepo4-battery-charger-for-6s-19-2v-lfp-packs/>

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



图 1: Phonix 22V 5A LiFePO4 Battery Charger