

40V 9A LiFePO4 Battery Charger for 35V 11S LFP Cells Pack Technical Datasheet

Phonix Charger – Custom Smart Battery Charger Manufacturer

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

Product Overview

This technical datasheet describes a 40V 9A 360W LiFePO4 Battery Charger designed for charging 11S 35V LiFePO4 battery packs. The charger provides stable constant current and constant voltage charging optimized for LiFePO4 battery chemistry.

The 40V 9A LiFePO4 battery charger is designed for charging 35V 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 11-cells (11S) 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 11S 35V 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	FX40009000
AC Input	100~240V, 50/60Hz
Input Voltage Range	AC 90~264V
Rated Input Current	3.9A at 100Vac input
Max Input Power	390W
DC Output Voltage MAX	DC 40V
Output Voltage Range	DC 35V ~ 40V,
Charging Voltage	40V±10% , CV Mode.
Charging Current	9A ±5%
Pre-charge Current	0.9A
Charge End Current	≤0.9A ±10%
Output Max Power	360W
Battery Type	11S 35V LiFePO4 Battery (11S 35V LFP Cells Pack)
Efficiency	≥93%
Ripple Voltage	≤360 mV
Operating Temperature	-10°C ~ +40°C
Storage Temperature	-40°C ~ +70°C
Humidity	0 ~ 95% RH
Cooling	Natural cooling
Size	233*108*64mm
Weight	1900g

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

Typical Applications

- 11S 35V 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

Whatsapp: +86-19124269133

Email: sales@phonixcharger.com

Product Page:

<https://phonixcharger.com/40v-9a-lifepo4-battery-charger-for-11s-35-2v-lfp-packs/>

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



图 1: Phonix 40V9A LiFePO4 Battery Charger