

3.65V 5A LiFePO4 Battery Charger for 3.2V LFP Cells 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 3.65V 5A 18.25W LiFePO4 Battery Charger designed for charging 1S 3.2V LiFePO4 battery packs. The charger provides stable constant current and constant voltage charging optimized for LiFePO4 battery chemistry.

The 3.65V 5A LiFePO4 Battery Charger is suitable for industrial equipment, backup power systems, alarm systems, and other devices powered by single-cell 3.2V LFP 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 1S 3.2V 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 $\geq 90\%$
- Industrial compact design
- OEM / ODM customization available

Technical Specifications

Parameter	Specification
Brand	Phonix
Model	FX3655000
AC Input	100~240V, 50/60Hz
Input Voltage Range	AC 90~264V
Rated Input Current	0.21A at 100Vac input
Max Input Power	21W
DC Output Voltage MAX	DC 3.65V
Output Voltage Range	DC 3.2V ~ 3.65V, CV Mode: 3.65V
Charging Current	5A ±10%
Charging Voltage	3.65V±0.05V
Pre- charge Current	0.5A
Charge End Current	≤0.5A ±10%
Output Max Power	18.25W
Battery Type	3.2V 1S LiFePO4 Battery (1S 3.2V LFP Cells Pack)
Efficiency	≥90%
Ripple Voltage	≤35mV
Operating Temperature	-10°C ~ +40°C
Storage Temperature	-40°C ~ +70°C
Humidity	0 ~ 95% RH
Cooling	Natural cooling
Size	133*58*31mm
Weight	350g
Safety Certifications	CE / UL / TUV / FCC / PSE / CCC
MTBF	30000 Hours

Typical Applications

- 1S 3.2V LiFePO4 battery packs
- Backup power systems
- Security and alarm systems
- Emergency lighting batteries
- Industrial electronic equipment
- OEM / ODM custom smart LiFePO4 Battery (LFP) battery charger

Manufacturer Information

Manufacturer: Phonix

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Product Page:

<https://phonixcharger.com/3-65v-5a-lifepo4-battery-charger-for-1s-3-2v-lfp-cells/>

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

