14.4V 2A Lead Acid Battery Charger for 12V SLA / AGM / GEL Batteries

Technical Datasheet

Phonix Charger – Industrial Battery Charger Manufacturer
https://phonixcharger.com

Product Overview

This technical datasheet is published by Phonix Charger, a manufacturer of smart and industrial battery chargers. The FX1442000 14.4V 2A lead-acid battery charger is designed for reliable charging of 12V sealed lead acid batteries including SLA, AGM, GEL, VRLA and other Pb-acid battery systems. The charger supports a multi-stage charging process (Pre-charge, Constant Current, Constant Voltage and Automatic Cut-off) to ensure safe and efficient battery charging.

Key Features

- Multi-stage charging: Pre-charge, CC, CV and automatic cut-off
- Compatible with SLA, AGM, GEL, VRLA and wet lead acid batteries
- Wide AC input range 100-240V
- LED charging status indicator
- Multiple protection functions: OVP, OCP, short circuit and reverse protection
- High efficiency design ≥86%
- Compact industrial design

Technical Specifications

Parameter	Specification
Brand	Phonix
Model	FX1442000
AC Input	100~240V, 50/60Hz
Input Voltage Range	90~264V
Rated Input Current	2.0A RMS

Max Input Power	30W
DC Output Voltage	14.4V
Output Voltage Range	12V ~ 14.4V
Charging Current	2A ±10%
Charging Voltage	14.4V ±0.2V
Pre-charge Current	0.2A ±10% (≤10.8V battery)
Charge End Current	≤0.4A ±10%
Battery Type	12V Lead Acid (SLA / AGM / GEL / VRLA / WET)
Efficiency	≥86% @ Full load
Ripple Voltage	≤150mV
Operating Temperature	-10°C ~ +40°C
Storage Temperature	-40°C ~ +70°C
Humidity	0 ~ 95% RH
Cooling	Natural cooling
Size	80 × 52 × 49 mm
Weight	300 g
Safety Certifications	CE / UL / TUV / FCC / PSE / CCC
MTBF	30000 Hours

Typical Applications

- 12V sealed lead acid battery charging
- Backup power systems
- Security and alarm systems
- Emergency lighting batteries
- Industrial and electronic equipment

Manufacturer Information

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Product Page:

https://phonixcharger.com/14-4v-2A-battery-charger-for-1s-12v-lead-acid-battery/

Official Website: https://phonixcharger.com