

43.8V 1A Lead Acid Battery Charger for 36V SLA / AGM / GEL Batteries

Technical Datasheet

Phonix Charger – Industrial Battery Charger Manufacturer

<https://phonixcharger.com>

Product Overview

This technical datasheet describes a 43.8V 1A lead-acid battery charger designed for charging 36V sealed lead-acid battery packs. The charger is compatible with a wide range of 36V lead-acid batteries including SLA (Sealed Lead Acid), AGM, GEL, VRLA and WET batteries.

With a stable 43.8V charging voltage, the unit is commonly used as a 36V SLA battery charger and is also suitable for 36V AGM and GEL battery systems in various industrial applications.

The charger uses a multi-stage charging process including Pre-charge, Constant Current (CC), Constant Voltage (CV) and automatic cut-off to ensure safe, stable and efficient battery charging. This charging method helps maintain reliable battery performance and extend battery service life.

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 protections: OVP, OCP, short circuit and reverse protection
- High efficiency design $\geq 88\%$
- Industrial compact design
- OEM / ODM customization available

Technical Specifications

Parameter	Specification
Brand	Phonix
Model	FX4381000
AC Input	100~240V, 50/60Hz
Input Voltage Range	AC 90~264V
Rated Input Current	0.6A at 100Vac input
Max Input Power	54W
DC Output Voltage MAX	DC 43.8V
Output Voltage Range	DC 36V ~ 43.8V
Charging Current	1A $\pm 10\%$
Charging Voltage	43.8V ± 0.2 V
Pre- charge Current	0.1A (≤ 21.6 V battery)
Charge End Current	≤ 0.2 A $\pm 10\%$
Output Max Power	43.8W
Battery Type	36V Lead Acid (SLA / AGM / GEL / VRLA / WET)
Efficiency	$\geq 88\%$
Ripple Voltage	≤ 360 mV
Operating Temperature	-10°C ~ +40°C
Storage Temperature	-40°C ~ +70°C
Humidity	0 ~ 95% RH
Cooling	Natural cooling
Size	102*50.8*43mm
Weight	142g
Safety Certifications	CE / UL / TUV / FCC / PSE / CCC
MTBF	30000 Hours

Typical Applications

- 36V sealed lead acid battery charging
- Backup power systems
- Security and alarm systems
- Emergency lighting batteries
- Industrial electronic equipment
- Custom 36V - 43.8V Lead acid battery (SLA) battery charger

Manufacturer Information

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Product Page:

<https://phonixcharger.com/43-8v-1a-lead-acid-battery-charger-for-36v-battery-packs/>

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

