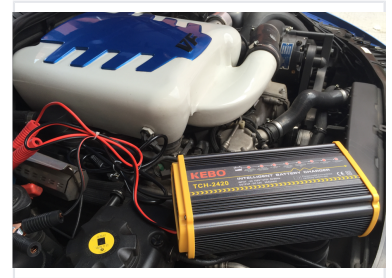


12V/24V 20A Intelligent Battery Charger

This is a high-frequency battery charger with intelligent 8-step charging. It provides overheat, short circuit, anti-polarity, and no output without battery protection.



ADDITIONAL IMAGES



Overview

Intelligent TCH Series Battery Charger

The TCH series is a professional high-frequency battery charger engineered for efficient, multi-stage maintenance of lead-acid batteries. Featuring an 8-step intelligent charging process, it ensures optimal battery health through phases including desulphation, soft start, and pulse charging. The unit includes advanced safety protections and automatic cooling, making it suitable for WET, Calcium, AGM, MF, and GEL battery types.

Performance

Key Performance Metrics

20 A

Output Current

280 W

Rated Power (12V Model)

560 W

Rated Power (24V Model)

Electrical Specifications

Input Voltage	155-275V AC
Input Frequency	50/60 Hz
Output Voltages	13.7V (12V model), 27.4V (24V model)

Safety & Compatibility

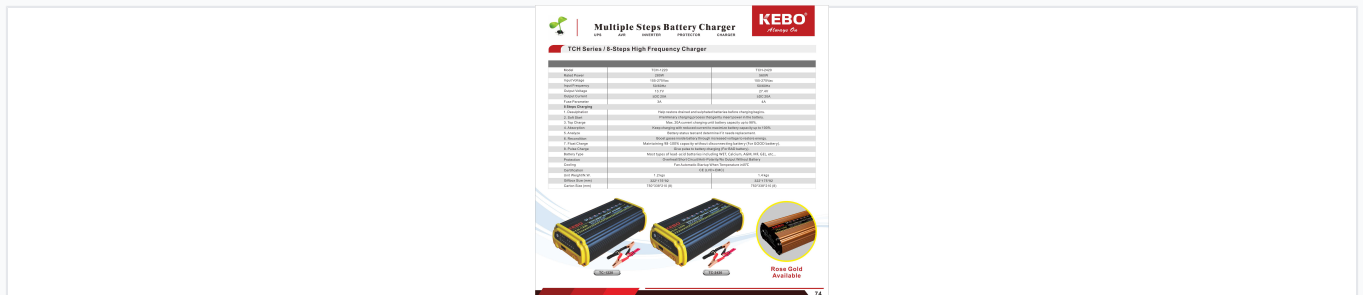
Supported Battery Types

- WET
- Calcium
- AGM
- MF
- GEL

Protection Features

Overheat Protection • Short Circuit Protection • Anti-Polarity Protection • No-Output-Without-Battery Protection

Technical Details



Comprehensive technical datasheet for the TCH series high-frequency intelligent battery charger.

8-Step Charging Process

- Desulphation
- Soft Start
- Top Charge
- Absorption
- Analyze
- Recondition
- Float Charge
- Pulse Charge

Cooling System

Automatic fan startup at temperature $\geq 45^{\circ}\text{C}$

Dimensions & Weight

Model Specifications

Model	Weight	Fuse
TCH-1220	1.2 kg	3A
TCH-2420	1.4 kg	4A

Certifications

CE, LVD, EMC