



ALT-400

400W High Frequency
Motive Battery Charger



Designed for high-performance charging of lead-acid and lithium batteries, with built-in Bluetooth for wireless real-time monitoring, troubleshooting, and battery recovery. Modular, detachable AC/DC cabling allows easy installation. Purpose-built for motive applications (Mobile Elevated Work Platform, Floorcare, Electric Vehicles) requiring safety, reliability, and durability against environmental conditions.

High Reliability

IP67-rated for dust, water, and extreme conditions, with UL1236 vibration standards for durability. Resists corrosion and impact, operating reliably from -30°C to 65°C with 5% to 95% humidity tolerance.

Wireless Control

Powered by Bluetooth 5.0, monitor charging, troubleshoot issues, adjust battery profiles, and update firmware remotely. Gain real-time access to the latest charging and recovery profiles for instant downloads, eliminating USB transfers and manual updates.

Safety and Protection

Engineered for safety with protection against overvoltage, short circuits, overheating, and reverse connections. Meets high insulation standards and FCC/IEC61000 compliance for reliable, interference-free operation. Pre-built with temperature sensors to protect batteries from under and/or over charge.

Plug-and-Play Platform

Fully pluggable input, output, and signal connectors make for easy installation and maintenance. The Bluetooth 5.0 App enables wireless programming of DC voltage, current, and charger profiles and functions as a configurable platform to support a wide range of batteries -- ideal for parts distributors, fleet and rentals.

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Category Specification

DC Output

Rated Output Voltage	24 VDC
Maximum Output Voltage	34 VDC
Maximum Output Current	17 A
Maximum Output Power	408 W
Battery Compatibility	Lead-acid (Wet/AGM/Gel), Lithium

Did you know? With Step Tech, our chargers are programmable to various voltage and current levels. Contact us to learn more.

AC Input

Input Voltage Range	85-265 VAC
Nominal Input Voltage	100-240 VAC
Input Frequency	47-63 Hz
Maximum AC Input Current	10 A
Power Factor	0.99 (full load)
Protection	Overvoltage, reverse connection, short circuit, high internal temperature, high battery temperature

Features

Wireless Control	Bluetooth 5.0 for app-based monitoring, troubleshooting, and profile adjustments
Charging Profiles	Preloaded and online library access
Battery Recovery Mode	Restores over-discharged batteries
Adjustable Power Supply (VPS)	User-defined voltage and current settings
Firmware Updates	Wireless OTA capability
Data Logging	Tracks charging history and diagnostics

Did you know? TrekON, unlocks advanced features in our chargers. App is available for download on Appstore or Google Play. Contact us to learn more.

Environmental

Operating Temperature	-30°C to 65°C
Storage Temperature	-30°C to 85°C
Humidity Resistance	5% to 95% RH
Protection Rating	IP67 (IEC60529, EN60529)
Vibration Resistance	UL1236 (10-60Hz, 0.508mm peak)
Corrosion & Drop Resistance	GB/T 2423.17, ISTA-1A

Regulatory & Compliance

Safety	3,000V insulation resistance, FCC, CE, CB, eTlus
Electromagnetic Compatibility	IEC61000-4-2,3,4,5,6,8,11; EN61000-6-2 (Heavy Industry)

Mechanical

Dimensions (LxWxH)	208 × 152 × 80 mm
Weight	2.1 kg

