

Power without limits



Optimize
fleet
deployment
and
maximize
savings

REVOLUTION



power designers

PowerCharge™ Series

High efficiency battery chargers designed for conventional, opportunity, and fast charge applications with state-of-the-art MOSFET/IGBT high frequency technologies resulting in higher efficiencies, smaller sizes, and lighter weight units.

Sustainability

- + Meet Green Energy goals
- + Footprint reduction
- + Manpower savings
- + Modular - multiple batteries to 1 charger

Centralized Monitoring

- + Remote monitoring delivered with minimal infrastructure costs
- + Efficiently manage battery charging & use
- + Optimize fleet deployment and usage
- + Consistent response capabilities

PowerCharge iHF1 Series

The PowerCharge iHF1 Series is a line of single phase high frequency smart chargers. The 3kW chargers can be configured for conventional, opportunity, and fast charging applications.

PowerCharge iHF3 Series

The PowerCharge iHF3 Series is a line of three phase high frequency smart chargers. Each of the 6kW and 10kW chargers can be configured for conventional, opportunity, and fast charging applications.

PowerCharge XP Series

The PowerCharge XP Series is a line of intelligent, high frequency, and modular fast chargers. The XP Series uses a 10kW base drawer unit for systems configured from 10kW to 30kW. The modular design offers high availability, simpler installation and service, and greater flexibility and scalability for building and expanding any fast charger system.



iHF1 Series



iHF3 Series



XP Series

REVOLUTION™ Series

The first full line of smart battery chargers with total charge cycle efficiencies greater than 90% and peak efficiencies reaching 92%.

Mobility and Deployability

- + Small and lightweight units
- + Repair on-site, less downtime
- + Improve fleet utilization
- + Robust design

Maximize energy savings

- + Reduce energy costs
- + Increase energy efficiencies
- + Extend battery life

Today's conventional chargers tout efficiencies of 90% and higher, but this figure refers only to the peak efficiency measured during a very limited portion of the charge cycle. Typically, charging efficiencies are significantly lower during the beginning of the charge cycle and especially during the end of the charge cycle. As a result, the overall charge cycle efficiency of most High Frequency (HF) chargers is less than 85%.

The REVOLUTION line of chargers, however, employs a patent pending technology that maintains a charging efficiency greater than 90% over the entire charge cycle. In addition, the REVOLUTION chargers can exceed 92% efficiency during the peak of the charge cycle. Very high overall and peak efficiencies result in true energy savings 6% greater than current leading HF chargers.



REVOLUTION Series

PowerCharge.NET™

Centralized Monitoring Optimizes Fleet Deployment & Mobility

PowerCharge.NET is a web-based charging and communication system designed to improve fleet productivity. This powerful tool manages entire fleets from a single location, analyzing battery conditions and diagnosing problems before reaching a critical stage.



PowerCharge.NET: Putting Information to Work

Single Source Control

- *Manages any size fleet from a single location.*
 - *Battery and charger data automatically uploads to web servers.*
 - *Can manage thousands of batteries and chargers throughout North America from one facility.*
- *Remotely diagnose and resolve battery issues.*
- *Pinpoint battery problem and location for effective service.*
- *Charger profiles can be modified in real time from any location.*

Automatic E-mail Notification

- *Sends service and preventive maintenance messages.*
- *Alerts of potential issues or problems before affecting fleet uptime.*
- *Alerts users of low water levels, low state of charge, missed equalizations, over and under use of a battery, and over temperature and preemptive warnings of signs for potential battery failure.*

Customized Reports

- *Easily create and export customized reports to help manage fleet operations.*
- *Organize real-time and historic data into actionable information.*
- *Build fleet operations history for future productivity improvements.*
- *Reports are accessible on PDA and net book devices, as well as on the web from remote locations.*

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