



# BEST IN CLASS



## CHARGER MODES:

 Conventional

 Opportunity

 Fast

 Li Lithium

 Wireless

# POWERHOUSE CHARGER FAMILY

**P**owerHouse chargers are the best in class. The PowerHouse label ensures that only the highest quality and best value chargers have been researched and developed for the rigors of today's market. The PowerHouse family of chargers provides a full line of charging technologies that can be tailored to meet the demands of your specific facility.

Designed and engineered to strict quality standards, every PowerHouse charger is assembled, programmed, and tested to deliver a charging system that meets your facility's specific requirements. Each customized "turn-key" charging system experience is then shipped through our various U.S. facilities.



## ACCESS CHARGER

- ▶ Microcomputer Smart Charger
- ▶ Charges all common battery types
- ▶ Peak efficiency 92%
- ▶ Power factor 95%
- ▶ Low weight and small footprint
- ▶ Advanced precision control for best battery life and performance
- ▶ Display and control panel programmable for both simple and complex charging
- ▶ Wireless radio standard
- ▶ Wireless communication with BMU Pro
- ▶ Low/480/600 VAC
- ▶ California Energy Commission Approved



## FLEXMOD CHARGER

- ▶ Small, lightweight, modular design
- ▶ Conventional, Opportunity, or Fast Charge
- ▶ Multi-voltage/DC capable
- ▶ Multi-AH capable
- ▶ Peak efficiency 94%
- ▶ Power factor 95%
- ▶ Wireless communication with TOBi WI-Z Battery Monitor
- ▶ 24 pre-loaded charger algorithms
- ▶ California Energy Commission Approved





## EP CHARGER

- ▶ Full featured, light to medium duty
- ▶ ECO-250 microprocessor control
- ▶ Standard 208/240/480 input voltages
- ▶ 600 VAC input available
- ▶ UL and cUL listed



## EL CHARGER

- ▶ Ferroresonant charger
- ▶ 100% battery AH return in 10 hours or less
- ▶ Peak efficiency 87%
- ▶ Power factory 92%
- ▶ Low maintenance
- ▶ Fully automatic



## PHP CHARGER

- ▶ Three-transformer ferroresonant design
- ▶ Standard or premium controls available
- ▶ LED/LCD display test at startup
- ▶ Lift-off front door
- ▶ Components mounted for ease of maintenance
- ▶ AC Input Taps for quick voltage changeover



## Conventional Charging

The industry standard charging profile for 8 hours of usage, 8 hours of charging, and an 8 hour cool down period. Common for industrial lead batteries in a wide array of material handling equipment. Conventional charging can be used in multiple shift applications with spare batteries or in single shift applications.



## Opportunity Charging (OC)

As the name implies, charging takes place throughout the day when the opportunity presents itself. Opportunity chargers deliver more current output vs. conventional chargers, and therefore much faster charging speeds. Batteries remain in the vehicle while charging, which eliminates the expense of owning and maintaining multiple batteries per truck.



## Fast Charging (OFC)

In high volume distribution centers, warehouses and factories where opportunity charging is insufficient to counter usage, fast charging technology is the solution.



## Lithium Battery Charging

Lithium batteries must be charged with a charger that is both powerful and precise. Most lithium batteries can be charged at a much higher rate than conventional batteries. In all cases the BMS of the battery sends a signal to start the charge and to end the charge at the appropriate time. The PowerHouse Access charger is compatible with most popular lithium battery systems including those that directly control the charger output via CANbus.



# SPECIALTY CHARGERS



## ECOPOINT HF1

- ▶ Efficient High Frequency Single Phase Input
- ▶ Near Unity (0.99) Power Factor
- ▶ 4 Status LEDs
- ▶ 2 Safety shutdown modes
- ▶ Smart Proportional charge termination
- ▶ Simple Operation
- ▶ Easy service
- ▶ Standard 190 thru 240 VAC input voltage range
- ▶ UL and cUL listed



## PAC CHARGERS

- ▶ Status LED
- ▶ Safety shutdown modes
- ▶ Smart Proportional charge termination
- ▶ Simple Operation
- ▶ 120VAC input, 12A or less
- ▶ UL and cUL listed
- ▶ 800 or 1300 watt models
- ▶ Steel enclosures for top mounted pallet jack batteries
- ▶ Light weight with very small form factor



## POKER SHOP CHARGER

- ▶ AC input: 120V AC  $\pm 5\%$ , UL-listed 20A input fuse
- ▶ Input Current 15A AC max. Equipped with NEMA 5-15A cables
- ▶ Output: suitable for 12V, 24V, 36V and 48V lead-acid batteries
- ▶ Electromechanical timer adjustable from 0 to 24 hours max
- ▶ Electromechanical switch for output voltage selection
- ▶ Ammeter: 100A/100mV
- ▶ Cabinet with wheels and handlebar for easy handling
- ▶ 24V AC auxiliary circuit with overload cutout and 1.6A fuse



## APPLICATIONS

There is a PowerHouse charger for nearly every electric vehicle and nearly every application from the largest distribution center to a small job shop.

- ▶ Forklifts
- ▶ Pallet Jacks
- ▶ Tuggers
- ▶ AGVs
- ▶ Floor Cleaners
- ▶ Maintenance Equipment
- ▶ Personnel Lifts
- ▶ Personnel Carriers
- ▶ Golf Carts



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