



WORLD CLASS Energy-efficient Battery Charging and Monitoring Systems

Conventional Charging | Opportunity Charging
Fast Charging | Lithium Battery Charging
Fleet Management Technology

ECOTEC is a World Class supplier of energy-efficient battery charging and monitoring systems located in Troy, Ohio. As a member of the Mircopower Group, one of Europe's leading manufacturers of power storage and charging technologies, Ecotec provides a gateway to faster, safer and more efficient battery charging in your facility.

ECOTEC charging equipment, monitoring systems, and fleet management technologies are designed and engineered to meet strict quality and efficiency standards. Every unit is assembled and tested in our state-of-the-art facilities to ensure best out-of-box quality at delivery. Systems are fully customized to customer specifications and readied for shipment in our US facility. Ecotec maintains an extensive inventory in our Ohio warehouse to ensure the shortest lead-times possible.



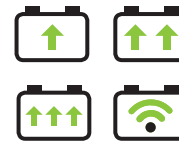
Conventional Charging

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-acid batteries in a wide array of material handling equipment. Conventional Charging typically requires multiple batteries per truck as discharged batteries are removed and replaced with fully charged units.

Access Charger



- Microcomputer Smart Charger
- Charges all common battery types
- High efficiency, 92%
- High power factor, 0.95
- Low weight and small volume
- Advanced precision control for best battery life
- Display and control panel permit simple programming
- Archived charge data, 1,800 cycles
- 480VAC 3 phase, 60Hz
- 600VAC or 208-240VAC* units available
- Wireless radio standard on all Access



Access Charger Shelf Mount



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- Archived charge data, 1,800 cycles
- 480VAC 3 phase, 60Hz
- 600VAC or 208-240VAC* units available
- Wireless radio standard on all Access chargers
- Dual Circuit units Available
- 4 to 8 Multi Circuit units available





Opportunity Charging

As the name implies, charging takes place throughout the day when the opportunity presents itself. Opportunity chargers deliver at least 50% 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

In high volume distribution centers, warehouses and factories where opportunity charging is insufficient to counter usage, Fast Charging technology is the solution. Fast Chargers deliver more than twice the current of conventional chargers.



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 Ecotec Access charger is compatible with most popular lithium battery systems including those that directly control the charger output via CANbus.

GET Fleet Management System



BMU



DCU

GET is an IoT system for optimizing battery and charger fleets for increased efficiency and productivity. The GET system gives you full control over your fleet wherever you are, optimizes your daily business operations and saves time through simplifying service and maintenance, hence increasing your uptime.

- Remote analysis of battery and charger data
- Near real time viewing and control of battery and charger operation
- Remote charger and BMU configuration
- “Push” notifications of faults
- Easy to configure dashboard of operating data and alarms



Lithium Charger

- All the same basic features as Access Charger
- Designed specifically for Lithium Ion Batteries
- CANbus capable
- Can operate under BMS (Battery Management System) control
- Chargers available up to 50kW
- Models available from 24VDC up to 120VDC
- 480VAC 3 phase
- 600VAC or 208-240VAC units available





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



Ecopoint Charger

- 3 Status LEDs
- 2 Safety shutdown modes
- Smart Proportional charge termination
- Simple Operation
- Easy service
- 5 Year warranty
- Standard 208/240/480 input voltage settings
- UL and cUL listed



PAC Chargers

- Status LED
- Safety shutdown modes
- Smart Proportional charge termination
- Simple Operation
- 1 Year warranty
- 120VAC input, 12A or less
- UL and cUL listed
- 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 an Ecotec 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
- Maintenance Equipment • Floor Cleaners
- Personnel Lifts • Personnel Carriers • Golf Carts



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