



PTO[™] High-Frequency OPPORTUNITY CHARGER

HAWKER[®] Provides New High-Frequency Charging Opportunities

HAWKER[®]'s extensive line of high-frequency charging solutions now includes the **PTO[™]** and **PMO[™]** opportunity charger products. These new chargers provide basic opportunity charging to compete with non-smart opportunity chargers.

Built on the same platform as the **POWERTECH[™]** and **POWERTECH[™]** Multi Chargers, the new **PTO[™]** and **PMO[™]** models are multi-capacity, single voltage chargers designed to compete in today's growing market of opportunity charging; allowing for operators to plug in for a quick charge during break times.

The **PTO[™]** and **PMO[™]** Chargers have a start rate of 25% of the battery's rated capacity or the maximum output of the charger (whichever is less) to consistently maintain the battery's state of charge. The battery is then completely charged daily via the charger's constant current finish charge to bring the battery back to full state of charge.



HAWKER[®]
Leading Edge Power Solutions

The **PTO™** and **PMO™ opportunity chargers** offer multiple benefits:

- Convenient and easy to use
- Ability to set specific charge parameters eliminates guesswork for charger settings
- Ability to recharge multiple times throughout the day
- Complete daily battery charge via constant current finish
- Elimination of battery change-outs
- Reduction of fleet inventory and equipment
- Improved safety levels due to not changing out batteries
- Improved use of floor space by eliminating dedicated charging areas
- Elimination of excess batteries and change-out equipment
- Provides cost savings on utilities, watering, and battery life



PMO™ Chargers

The multi-circuit, high-frequency **PMO™ Charger** offers great flexibility. It can accommodate from one to four individual charging modules, depending on the number of required circuits. The **PMO™** can be mixed and matched to meet customer needs; and additional chargers can be incorporated later as their fleet grows.

The **PTO™** and **PMO™ opportunity chargers** feature:

1. **Adjustable parameters**
 - Complete charge delay time
 - Equalize charge delay time
2. **User-friendly LCD display shows real-time charge data of battery being recharged, including:**
 - battery total voltage
 - DC current
 - battery state of charge
 - cell voltage
 - amp hours returned to battery
 - charge time
3. **Easy-to-read status lights**
 - Yellow = charge in process
 - Green = charge complete
 - Red = fault
4. **Control panel includes Stop/Start control button and Equalize push button (for a manual EQ)**
5. **Records charge data, and holds last 20 cycles in memory**



Note: Opportunity charging may not be the answer for every customer and each should be evaluated for the best charging practices in their facility.

For additional information about the **PTO™** and **PMO™** charger products, please contact your local **HAWKER®** Representative or call **877-7HAWKER**.



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