



## O P E R A T I N G I N S T R U C T I O N S

### QPAGM12v/6Ax10 (Octopus) Battery Charger

#### INTRODUCTION:

The QPAGM (Octopus) charger is designed for charging from one to ten 12 volt batteries independently. A three stage charger with ten individual 12 volt 6 amp circuits allows batteries with different states of charge to be charged at the same time without the over and undercharging problems of series or parallel chargers. Batteries are first bulk charged, then sent into a gassing mode, and finally a low float maintenance mode. Perfect for AGM batteries, also accommodates starting and wet deep cycles.

**IMPORTANT: DO NOT USE THIS CHARGER UNTIL YOU HAVE READ ALL THE INSTRUCTIONS.**

#### INITIAL INSTALLATION:

Before making AC connections, refer to the AC requirements labeled on the charger. If your charger is not equipped with an AC plug (*a 220 volt model*) have a qualified electrician install one.

**⚠ CAUTION:** To reduce the risk of fire, use this charger only on circuits provided with a maximum of 20 ampere branch circuit protection (circuit breaker or fuse), In accordance with the National Electric Code, ANSI/NFPA 70, and all local codes and ordinances.

#### GROUNDING INSTRUCTIONS:

This battery charger must be grounded to reduce the risk of electric shock. If the charger is equipped with a grounding type plug, it must be plugged into a nominal 115 volt, 60 Hertz circuit. If the charger is supplied with no plug, have a qualified service person install one.

**⚠ WARNING:** Improper connection of the equipment grounding conductor can result in risk of an electric shock. **DO NOT USE THIS CHARGER ON A TWO POLE UNGROUNDED OUTLET OR ATTEMPT TO BREAK OFF THE GROUND PRONG FOR USE ON A RECEPTACLE OR EXTENSION CORD NOT HAVING A GROUND.**

The use of an extension cord with this charger should be avoided. The use of an improper extension cord result in a risk of a fire or electric shock. If an extension cord must be used, make sure it is in good condition. Use a three conductor cord no smaller than 14 AWG. And keep it as short as possible. Locate all cords so that they will not be stepped on, tripped over, or otherwise subjected to damage or stress.

Do not operate this charger if it shows any signs of physical damage.

## PROPER CARE AND USE OF BATTERIES:

**⚠ CAUTION:** Always wear protective eye shields and clothing when working with batteries. Batteries contain acids which can cause bodily harm. Do not put wrenches or other metal objects across the battery terminal or battery top. Arcing or explosion of the battery can result. Do not wear jewelry when working around batteries. Arcing can cause severe burns.

New batteries will not deliver their full performance until after several cycles.

The tops of the batteries and battery hold downs must be kept clean and dry at all times to prevent excessive self discharge and flow of current between the battery post and frame.

Maintain the proper electrolyte level by adding water when necessary. Never allow the electrolyte level to fall below the top of the battery plates. Electrolyte levels fall during discharge and rise during charging. Therefore, to prevent the overflow of electrolyte when charging, add water **ONLY AFTER** the batteries have been fully charged **DO NOT OVERFILL**. Old batteries require more frequent additions of water than do new batteries.

Do not over discharge the batteries. Excessive discharge can cause polarity reversal of individual cells resulting in complete battery failure.

Provide adequate ventilation for the batteries and charger. Do not obstruct the flow of cooling air around the charger. Provide at least 1" of space around charger. Do not allow clothing, blankets or other material to cover the charger.

**⚠ WARNING:** Chargers can ignite flammable materials and vapors. Do not use near fuels, grain, dust, solvents, or other flammable's.

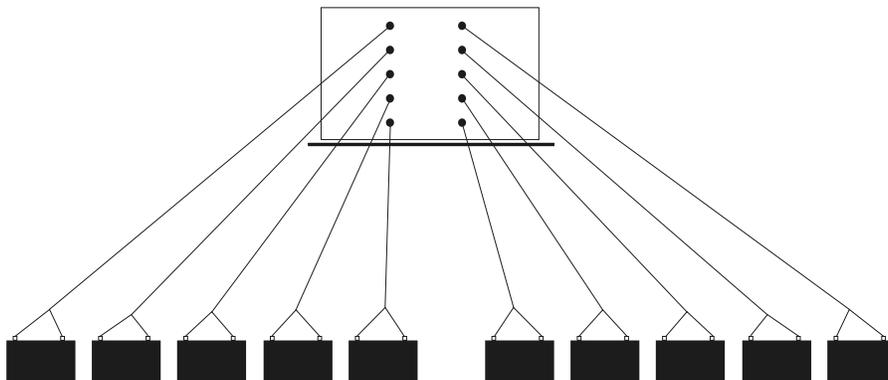
**⚠ WARNING:** Make sure the DC output leads, clamps, or connector are all in good working condition.

### DO NOT USE THIS CHARGER IF:

The DC output clamps, or connector is loose, worn or does not make good contact; The leads are cut or have exposed wires; The DC output leads or connector/clamps feel hot when used.

Using this charger with any of the above symptoms could result in a fire, property damage, or personal injury. Have a qualified service person make the necessary repairs. Repairs should not be made by people who are not qualified.

Place the batteries on a wooden or other non-metallic surface, and connect from 1 to 10 as shown below. Red clamp to positive post, black to negative. If charge leads are connected reverse, the circuit will not turn on.



## NORMAL OPERATION

- 1). Be sure the ON/OFF switch is in the OFF position, then plug the charger into AC power having the same ratings as that of the charger.
- 2). Move ON/OFF switch to ON. All circuits that have a battery connected should come on steady RED indicating battery is less than 80% charged. Initial start current for each circuit can be expected to be approximately 6 amps. Those circuits without a battery will alternate GREEN and RED. Additionally circuits that are connected up reverse polarity to a battery will also alternate GREEN and RED.
- 3). As batteries become charged, the respective LED will turn YELLOW indicating battery is 80% charged, and the beginning of the gassing cycle. The time in the gassing cycle will be 50% of the time taken to reach it, after which the LED will turn GREEN indicating battery is fully charged. However, battery is not 100% fully charged until the LED flashes slow GREEN. A faint flickering, or none at all might indicate battery is too big or has one or more shorted cells. Ambient temperature may also influence the LED flash rate. Current in this state can be expected to be approximately 20 milliamps when all cells are good.

Batteries may be left connected indefinitely, but water levels should be checked on wet batteries periodically.

You may choose to charge one battery at more than the 6 amp rate. This can be done by clipping two or more sets of leads to the battery, each additional set will increase charge rate in 6 amp increments.

**▲ CAUTION:** Charge leads should not be moved on battery when in BULK or GASSING mode, as indicated by a steady RED or YELLOW LED. Arcing can occur and cause an explosion. Batteries should only be removed when in flashing GREEN mode to minimize this possibility

- 4). To discontinue charging, move switch to the OFF position. Remove clamps from battery.

## TROUBLE SHOOTING:

**▲ CAUTION:** DO NOT DISASSEMBLE THE CHARGER. Incorrect assembly may result in a risk of electric shock or fire. Contact factory.

**▲ DANGER:** To reduce the risk of electric shock, always disconnect both the AC power supply cord and the output leads or connector before attempting any maintenance cleaning.

- 1). **“AC POWER” LED WILL NOT COME ON WHEN POWER SWITCH IS ON**  
Check that you are plugged into a live circuit. Check AC cord, plug and receptacle for damage. Check the fuse on charger. If the element is blown, replace with a fuse of the exact ratings.
- 2). **FUSE ON CHARGER OR AC LINE BREAKER BLOWS**  
The charger may be shorted internally. Charging a battery with a lower voltage rating than the charger will cause an overload, and damage to battery and charger.

**3). NO POWER IS PRESENT ACROSS THE DC LEADS WHEN A VOLT METER IS CONNECTED**

Good. The charger will not turn on until the clamps are connected to the battery correct polarity.

**5). BATTERIES DON'T RECEIVE FULL CHARGE:**

The battery you are charging may be too large for the charger, or if you have the charger plugged into a long extension cord that is too small, a voltage drop will cause a decrease in charger output, extending charge times. Battery is defective.

**6). LED ALTERNATES RED AND GREEN WITH BATTERY CONNECTED CORRECTLY:**

Check DC lead connection to clamp.

**7). CHARGE LED DOES NOT COME ON:**

Defective individual circuit..

**8). LED NEVER BLINKS:**

The battery has one or more shorted cells that is not allowing the current to fall enough to start the LED blinking. A battery in this condition should be replaced.

**QUICK CHARGE QPAGM12v/6Ax10 (octopus) Battery Chargers  
"LIMITED WARRANTY"**

Quick Charge corporation warrants the QPAGM12v/6Ax10 charger for one (1) year from the date of purchase.

After the warranty period, chargers returned to the factory for repair will be charged a minimum rate of \$25.00. Charger will be returned, freight and repair charges, C.O.D. unless other arrangements have been made

This warranty covers all defects in manufacture and performance, provided the unit is operated in compliance with manufacture's operating instructions.

For repairs to be made at the Quick Charge factory, a charger and/or component(s) should be sent, freight prepaid to Quick Charge at:

Quick Charge Corp.  
1032 S.W. 22nd St.  
Oklahoma City, OK. 73109

Quick Charge, will at it's option, repair or replace the charger or component in question. The repaired item will then be returned, freight prepaid by Quick Charge. This warranty is void if the charger or component have been altered, changed, or repaired by anyone not authorized by Quick Charge, or if the charger or component, have been subjected to misuse, negligence, or harsh environmental conditions. (Except those chargers designed for such conditions)

If returning the charger to the factory is not practical, replacement parts may be shipped to the customer for field repair at no charge. On parts such as circuit boards, the customer will be required to return the board suspected to be defective to Quick Charge, freight prepaid. If such defective parts are not returned, the customer will be invoiced for the repair parts.

Field repairs are made at the user's own risk. "Authorization" by Quick Charge to repair refers to maintaining the warranty only. Quick Charge assumes no responsibility or liability for field servicing, and shall not be responsible for incurred travel or labor charges.

Quick Charge corporation shall not in any event be liable for the cost of any special, indirect or consequential damages to anyone, product or thing.

This warranty is in lieu of all other warranties expressed or implied. Quick Charge neither assumes nor authorizes any representative or other person to assume for us any liability in connection with the sale of this product.