1. Mount The Charger

**Enclosed Charger Is Rainproof**
Protect from Driving Water

**Install Open-Frame Charger**
In an enclosure suitable for protection of personnel and water ingress into equipment

Heat sink charger to metal surface

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2. Verify Battery Settings

**IMPORTANT!**
See inside charger cover label for customer requested settings configured at the factory

Leave jumpers in all 3 float positions as shipped by factory to operate using these settings (Refer to figure at right)

Chargers with optional keypad do not include jumpers

See application note 26 to commission NICD batteries

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3. Make Electrical Connections

**Optional - J1939 and Modbus Settings and Connections**

**Optional Alarms:**
Remove pluggable alarm terminal block to install alarm wires

See inside cover label for alarm wires

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4. Power On - Connect battery then energize AC power

Note - Chargers configured to boost may be in boost for up to 24 hours at start-up if battery voltage is low
IMPORTANT SAFETY INSTRUCTIONS
INSTRUCTIONS IMPORTANTES CONCERNANT LA SÉCURITÉ

1. SAVE THESE INSTRUCTIONS – This guide contains important safety and operating instructions for MicroGenius®2 battery chargers.

2. Do not expose open-frame charger to rain or snow.

3. Use of an attachment not recommended or sold by the battery charger manufacturer may result in a risk of fire, electric shock, or injury to persons.

4. This charger is intended for commercial and industrial use. ONLY TRAINED AND QUALIFIED PERSONNEL MAY INSTALL AND SERVICE THIS UNIT.

5. To reduce risk of damage to electric plug and cord (if optional power cord is included), pull by plug rather than cord when disconnecting charger.

6. Do not operate charger with damaged cord/plug – replace cord/plug immediately.

7. Do not operate charger if it has received a sharp blow, been dropped, or otherwise damaged in any way; shut off power at branch circuit protectors and have unit serviced or replaced by qualified personnel.

8. To reduce risk of electric shock, disconnect branch circuit feeding charger before attempting any maintenance or cleaning. Turning off controls will not reduce this risk.

9. External connections to charger shall comply with the United States Coast Guard electrical regulations (SECTION 6185.11 PART II).

10. WARNING – RISK OF EXPLOSIVE GASES

10.1 WORKING IN THE VICINITY OF A LEAD-ACID OR NICKEL-CADMIUM BATTERY IS DANGEROUS. STORAGE BATTERIES GENERATE EXPLOSIVE GASES DURING NORMAL BATTERY OPERATION. FOR THIS REASON, IT IS OF UTMOST IMPORTANCE THAT YOU READ THIS DOCUMENT AND FOLLOW THE INSTRUCTIONS EACH TIME YOU USE THE CHARGER.

IL EST DANGEREUX DE TRAVAILLER A PROXIMITÉ D’UNE BATTERIE AU PLOMB. LES BATTERIES PRODUISENT DES GAZ EXPLOSIFS EN SERVICE NORMAL. IL EST AUSSI IMPORTANT DE TOUJOURS RELIRE LES INSTRUCTIONS AVANT D’UTILISER LE CHARGEUR ET DE LES SUIVRE À LA LETTRE.

10.2 To reduce risk of battery explosion, follow these instructions and those published by battery manufacturer and manufacturer of any equipment you intend to use in vicinity of a battery. Review cautionary markings on these products and on the engine. Pour réduire le risque d’explosion, lisez ces instructions et celles qui figurent sur la batterie.

11. Someone should be within range of your voice or close enough to come to your aid when you work near a storage battery.

12. Have plenty of fresh water and soap nearby in case battery electrolyte contacts skin, clothing, or eyes.

13. Wear eye protection and clothing protection. Avoid touching eyes while working near a storage battery.

14. If battery electrolyte contacts skin or clothing, wash immediately with soap and water. If electrolyte enters eye, immediately flush the eye with running cold water for at least 10 minutes and get medical attention immediately.

15. NEVER inhale or allow a spark or flame in vicinity of battery or engine. Ne jamais inhaler les vapeurs ou allumer un feu à proximité de ces derniers.

16. Be extra cautious to reduce risk of dropping a metal tool onto battery. It might spark or short circuit battery or other electrical part that may cause explosion. Using insulated tools reduces this risk, but will not eliminate it.

17. Remove personal metal items such as rings, bracelets, necklaces, and watches when working with a storage battery. A storage battery can produce a short circuit current high enough to weld a ring or the like to metal, causing a severe burn.

18. When charging batteries, charge 6 and 12 cell LEAD-ACID or 10 and 20 cell LIQUID ELECTROLYTE NICKEL-CADMIUM batteries only, with rated capacity of 30 to 300 Ampere hours. Certified for the pump and emergency generator applications at 200 Ampere hours. Do not use this battery charger to supply power to an extra-low voltage electrical system or to charge any type of nonrechargeable, dry cell, alkaline, lithium, nickel-metal-hydride, or sealed nickel-cadmium batteries that are commonly used with home appliances. These batteries may burst and cause injuries to persons and damage to property.

19. NEVER charge a frozen battery. Ne jamais charger une batterie gelée.

20. Charger contains a DC output fuse for internal fault protection, but this will not protect DC wiring from fault currents available from battery. Consult national and local ordinances to determine if additional battery fault protection is necessary in your installation.

21. Be sure area around battery is well ventilated while battery is being charged.

22. Ensure battery terminals are clean and properly tightened. Be careful to keep corrosion from coming in contact with eyes.

23. Add distilled water in each cell until battery acid reaches level specified by battery manufacturer. Do not overfill. For a battery without removable cell caps, such as valve regulated lead acid batteries, carefully follow manufacturer’s recharging instructions.

24. Study all battery manufacturer specific precautions such as removing or not removing cell caps while charging and recommended rate of charge.

25. Place charger at least 11.7” (297.2mm) from the battery. See diagram for this and all other dimensions to make sure charger is not closer than the specified distance to the battery.

26. Place charger at least 9.45” (240.0mm) from any combustible material. See diagram for this and all other dimensions to make sure charger is not closer than the specified distance to the combustible material.

27. Do not place charger in front of battery. When reading electrolyte specifically gravity or filling battery, place charger 4.50” (114.3mm) from the battery. Use 1/4” or M6 maximum fasteners. Do not over tighten.

28. Do not operate charger in a closed-in area or restrict ventilation in any way. Ne pas faire fonctionner le chargeur dans un espace clos et/ou ne pas gêner la ventilation.

29. Do not set anything on top of the charger.