



La MARCHE®

TPM DISTRIBUTION CENTER

TPCDB1

&

TPCDB2

INSTRUCTION

MANUAL

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IMPORTANT SAFETY INSTRUCTIONS
FOR THE
LA MARCHE POWER CONVERSION EQUIPMENT
SAVE THESE INSTRUCTIONS

This manual contains important safety and operating instructions for the La Marche Power Conversion Equipment.

Before using this equipment, read all instructions and cautionary markings on (1) unit, (2) battery, and (3) product using the battery.

CAUTION: To reduce risk of injury and/or damage to the batteries, use only the type of batteries specified on the charger.

Do not expose equipment to rain or snow.

Do not operate equipment if it has received a sharp blow, been dropped, or otherwise damaged in any way; take it to a qualified serviceman.

Do not disassemble this unit; take it to a qualified serviceman when service or repair is required. Incorrect re-assembly may result in a risk of electric shock or fire.

To reduce risk of electric shock, disconnect this unit from the a.c. supply, or batteries and loads before attempting any maintenance or cleaning. Turning off controls will not reduce this risk.

WARNING - RISK OF EXPLOSIVE GASSES WORKING IN VICINITY OF A BATTERY IS DANGEROUS. SOME BATTERIES GENERATE EXPLOSIVE GASES DURING NORMAL BATTERY OPERATION. FOR THIS REASON, IT IS OF UTMOST IMPORTANCE THAT EACH TIME BEFORE USING THIS UNIT, YOU READ THIS MANUAL AND FOLLOW THE INSTRUCTIONS EXACTLY.

To reduce risk of battery explosion, follow these instructions and those published by the battery manufacturer and manufacturer of any equipment you intend to use in the vicinity of the battery.

Review cautionary marking on all products.

PERSONAL PRECAUTIONS:

- ◆ Someone should be within range of your voice or close enough to come to your aid when you work near a battery.
- ◆ Have plenty of fresh water and soap nearby in case the battery electrolyte contacts skin, clothing, or eyes.
- ◆ Wear complete eye protection and clothing protection. Avoid touching eyes while working near a battery.
- ◆ If the battery electrolyte contacts skin or clothing, wash immediately with soap and water. If the electrolyte enters the eye, immediately flood the eye with running cold water for at least ten (10) minutes and get medical attention immediately.

TPM DISTRIBUTION CENTER INSTRUCTIONS

- ◆ Never smoke or allow a spark or flame in vicinity of a battery.
- ◆ Be extra cautious to reduce risk of dropping a metal tool onto a battery. It might spark or short-circuit the battery or other electric part that may cause an explosion.
- ◆ Remove personal metal items such as rings, bracelets, necklaces, and watches when working with a battery. A battery can produce a short-circuit current high enough to weld a ring or the like to metal, causing a severe burn.
- ◆ NEVER charge a frozen battery.

PREPARING TO CHARGE

- ◆ If necessary to remove the battery connections, always remove grounded terminal from the battery first. Make sure all loads are disconnected and unit is off, so as not to cause an arc.
- ◆ Be sure the area around the battery is well ventilated while the battery is being charged.
- ◆ When cleaning battery terminals, be careful to keep corrosion from coming in contact with eyes.
- ◆ Study all the battery manufacturer's specific precautions such as removing or not removing cell caps while charging, recommended rates of charge, and maintenance procedures.

UNIT LOCATION

- ◆ Never place this unit directly above the battery. Gases from the battery will corrode and damage equipment. A sealed maintenance free or valve regulated lead acid (VRLA) may be placed below this equipment.
- ◆
- ◆ Never allow the battery electrolyte to drip on this unit when reading the specific gravity or filling the battery.
- ◆ Do not operate this unit in a closed-in area or restrict ventilation in any way.
- ◆ Do not set a battery on top of this unit.

D.C. CONNECTION PRECAUTIONS

Connect and disconnect D.C. output cables only after setting all of this unit's switches to off position and removing a.c. input supply.

GROUNDING INSTRUCTIONS

This battery charger should be connected to a grounded, metal, permanent wiring system; or an equipment grounding conductor should be run with circuit conductors and connected to equipment-grounding terminal or lead on battery charger. Connections to battery should comply with all local codes and ordinances.

CAUTION: DO NOT PULL ON OUTPUT CABLES WHEN DISCONNECTING CHARGER FROM BATTERY

GENERAL DESCRIPTION

This Total Power Module (TPM) distribution center, breaker version, TPCDB1 & TPCDB2 is designed for use with the La Marche Mfg. TPM rectifier system. The TPCDB1 & TPCDB2 only takes up two spaces in the TPM cage (TPC).

The TPCDB1 distribution center provides up to seven d.c. breakers for load distribution with a maximum distribution of 70 amps. The maximum size for each breaker is 10 amps. A 70 amp battery breaker, breaker alarm assembly, and a low voltage/load disconnect with calibration circuitry is standard.

The TPCDB2 distribution center provides up to four d.c. breakers for load distribution with a maximum distribution of 70 amps. The maximum size for each breaker is 50 amps.

INSTALLATION

After the TPM and TPCDB1 or TPCDB2 are plugged into the TPC, connect the positive and negative wires from the distribution center to the d.c. cage positive and negative terminals.

OBSERVE POLARITY

Connect the TPC connector and the distribution connector together. Connect the green ground to the TPC ground. Before connecting the battery and loads, power up the TPM modules. Close the battery breaker and check for proper voltage at the battery terminals on the distribution center. If voltage is correct, connect battery and load. (SEE SCHEMATIC)

Two sets of summary form "C" contacts are provided on terminal strip, TS-A (at the back of the distribution center). They will operate if a module fails, a breaker trips, or the low voltage load disconnect operates.

See unit schematic furnished in manual for more information.

MANUFACTURER'S WARRANTY

All La Marche Manufacturing Co. equipment has been thoroughly tested and found to be in proper operating condition upon shipment from the factory and is warranted to be free from any defect in workmanship and material that may develop within two (2) years from date of purchase under normal use.

If the equipment proves defective within a two year period, it shall be replaced without charge after examination at our factory, providing such defect in our opinion, is due to faulty material or workmanship and not caused by tampering, abuse, misapplication or improper installation.

Should the equipment require major replacement or repair, the equipment must be returned to the La Marche factory to have the inspections, parts, replacements and testing performed by factory personnel. Should it be necessary to return a piece of equipment to the factory, the customer or Sales representative must first obtain a RMA (Return Material Authorization) from the factory. If upon inspection at the factory, the defect was due to faulty material or workmanship, all repairs will be made at no cost to the customer during the warranty period.

All internal maintenance to be performed by La Marche. **Warranty is void if seal is damaged.**

La Marche reserves the right to honor the warranty with a replacement unit.

In accepting delivery of the equipment, the purchaser assumes full responsibility for proper installation, installation adjustments and service arrangements. Should minor adjustments be required, the local La Marche Sales Representative should be contacted to provide this service.

All sales are final. Only standard LaMarche units will be considered for return. A 25% restocking fee is charged when return is factory authorized. Special units are not returnable.

In no event shall La Marche Manufacturing Co. have any liability for consequential damages, or loss, damage or expense directly or indirectly arising from the use of the products, or any inability to use them either separately or in combination with other equipment or materials, or from any other cause. In addition, any alterations of equipment made by anyone other than La Marche Manufacturing Co. renders this warranty null and void.

La Marche Manufacturing Co. reserves the right to make revisions in current production of equipment, and assumes no obligation to incorporate these revisions in earlier models.

The failure of La Marche Manufacturing Co. to object to provisions contained in customers' purchase orders or other communications shall not be deemed a waiver of the terms or conditions hereof, nor acceptance of such provisions.

The above warranty is exclusive, supersedes and is in lieu of all other warranties, expressed or implied, including any implied warranty of merchantability or fitness. No person, agent or dealer is authorized to give any warranties on behalf of the Manufacturer, nor to assume for the Manufacturer any other liability in connection with any of its products unless made in writing and signed by an official of the manufacturer.