

Ecopoint

Three Phase Charger

Quick Start Installation Guide

- Step 1 – Unpack charger and mount in place
- Step 2 – Confirm that charger input AC voltage setting matches available AC input service. **If not, proceed with steps 3, 4, & 5.**
- Step 3 – Set main transformer for correct input AC voltage
- Step 4 – Set auxiliary transformer for correct input AC voltage
- Step 5 – Resize input AC fuses for correct input AC voltage
- Step 6 Connect Input AC Service to Charger
- Step 7 – Confirm steps 3 through 5

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Step 1 – Unpack & Mount

- Always remove charger from wooden shipping pallet
- Confirm that the charger is located above a non flammable surface, such as concrete or steel.
- Confirm that the charger has adequate ventilation. 12” clearance on all sides is required.
- If the charger is mounted to a shelf or rack, always securely bolt the charger to the mounting surface using ¼” or larger diameter hardware.

Step 2 – Verify AC Service

- Confirm that the charger input voltage setting matches your input AC service.
- Check the Tag on the upper right hand charger side panel. (see below)
- If the available service and charger voltage setting match, no further action is required.
- If they don't match, proceed to step 3.

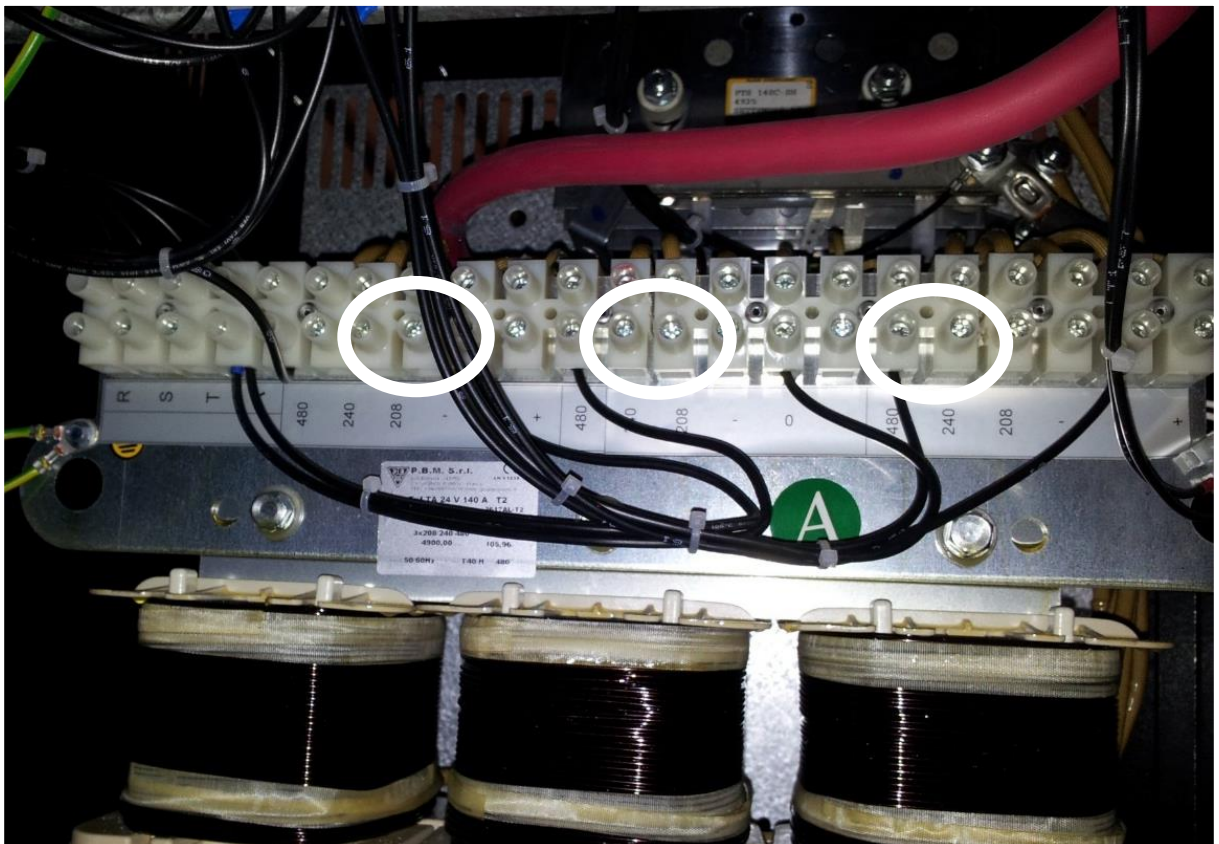


Step 3a - AC Input Connections

- When changing 3 phase input voltage connections, both **main transformer** and **auxiliary transformer** connections must be correctly adjusted.
- There are either 3 (or 6) wires on three phase **main transformers**. Depending on the power rating of the charger, some chargers will have 1 wire per phase for a total of 3, larger chargers will have 2 wires per phase for a total of 6.
- 3 (or 6) more wires on the extreme left hand side of the **transformer terminal block** need to be configured for Delta (208/240 VAC) or Wye (480 VAC) configuration
- 1 wire on all **auxiliary transformers**
- Re-Size **Input Fuses** for new input voltage

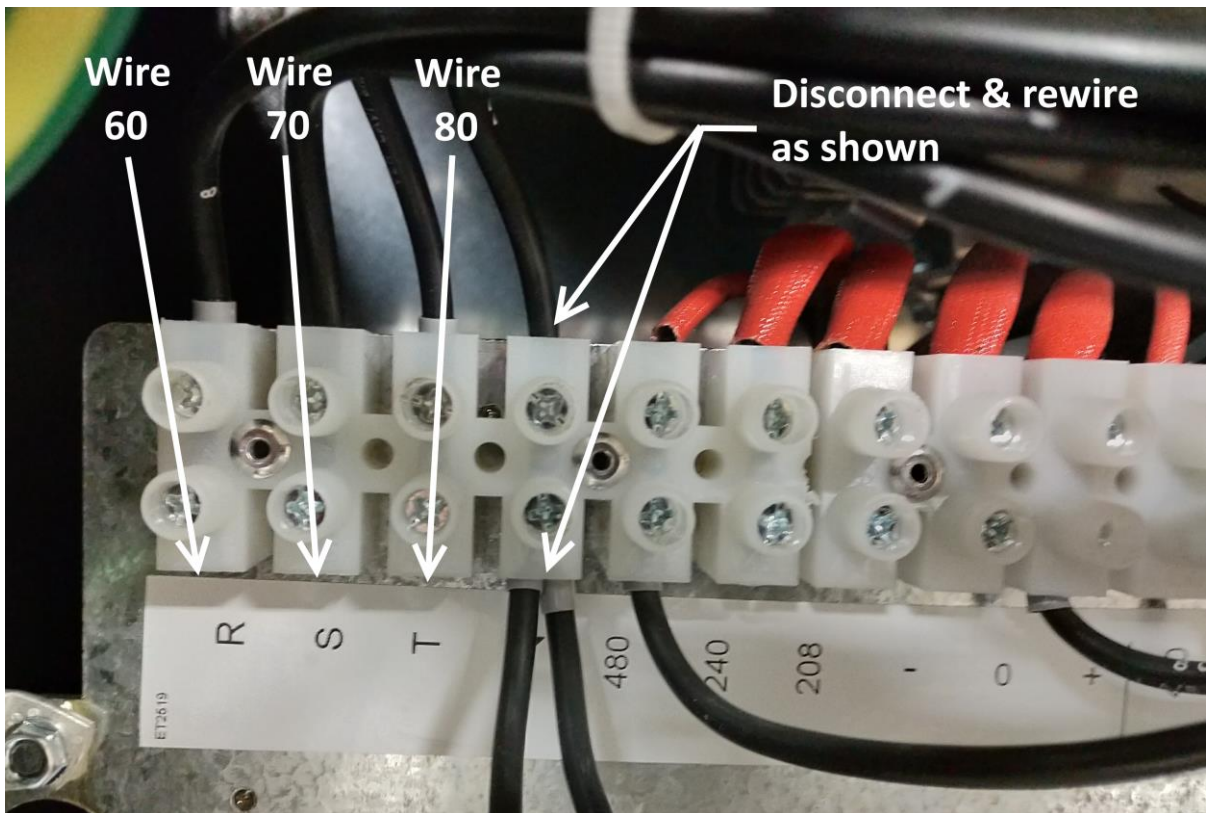
Step 3b – 3 Phase input Connections for Main Transformer

- Move each of the wire(s) from the original voltage terminal to the new terminal, **eg. from 240V to 480V**
- Must be changed to correct voltage for all 3 phases
- Be sure to have all three phases connected to the same voltage terminal
- **ATTENTION:** Incorrect connection can damage the charger



Step 3c - Reconnect for Delta (208/240V)

- When set for 480VAC wires 60, 70 & 80 will all be connected to terminal “Y”. This must be changed before operating at 208 or 240 VAC.
- Disconnect all 3 (or 6) wires from the “Y” terminals and reconnect 1 wire each to the “R”, “S” and “T” terminals as shown below
- Be sure to follow the wire numbering shown in the photo below



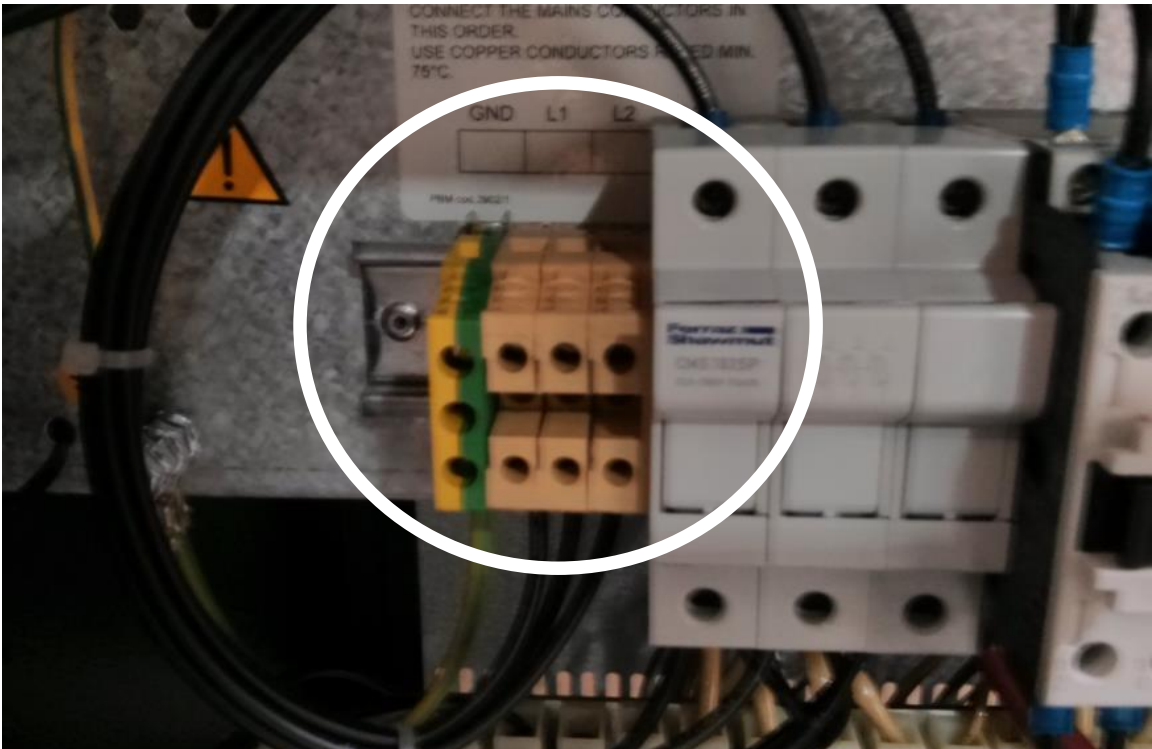
Step 4 – Auxiliary Transformer Connections

- Must be changed whenever changing **Main Transformer**
- Move wire to the terminal that matches the input voltage and main transformer connection



Step 6 – Connect Input AC Service

- Connect your AC input Service to the top of the input terminal block (see below)
- Select your input wiring, branch circuit protection and switching as required by all national (NEC) and local electrical codes



Step 7 - Confirm

If you performed an AC Voltage Changeover, you should have completed 3 basic steps:

1. Relocate wires on **main transformer** (STEP 3)
2. Relocate 1 wire on **auxiliary transformer** (STEP 4)
3. Install correct **AC fuses** (STEP 5)

Failure to complete any one of these three steps can result in charger damage!

Thank you for choosing

Ecopoint Chargers from Ecotec

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