OV-G-V (Over grid voltage) calibrating the inverters

Upgrade the firmware (both HMI and DSP) on the inverters
HMI >=FF, DSP >=D1

If you are unsure how to do this, find the instructions in separate documents (one for HMI and one for DSP).

Record the voltage errors for each phase

The following are the steps to find the error for each phase:

1. ensure that each of the phases are in the correct pins of the AC plug, shown below

2. measure the voltages of phase 1 and check the voltage according to the inverter (this has to be done at the same time, the two displays should be showing the values right next to each other) record the measured voltage vs the inverter voltage and calculate the error (error = Vmeasured – Vinverter)

3. repeat the above step for phase 2

4. repeat the above step for phase 3

Setting the offset on the inverter

Do the following to set the offset on the inverter:

- Press ENTER to open the menu
- Scroll DOWN to Advanced settings and press ENTER
- Type in the code (0010) by pressing DOWN, DOWN, UP and ENTER
- Scroll UP to Compensation Set and press ENTER
- Scroll DOWN to Voltage parameter and press ENTER
- Set the error values for each respective phase
- Press ESC and ENTER to save and send

Check the system

Measure the voltages measured by multimeter versus the voltages measured by the inverter. If still not within 2 volts of each other repeat the calibrating process.

Potential Issues

If changing a single offset causing a change in another parameter, check the plug that you definitely have the correct pins as shown in the image.

If the offset is not changing any of the parameters. Check that you have the correct DSP version.