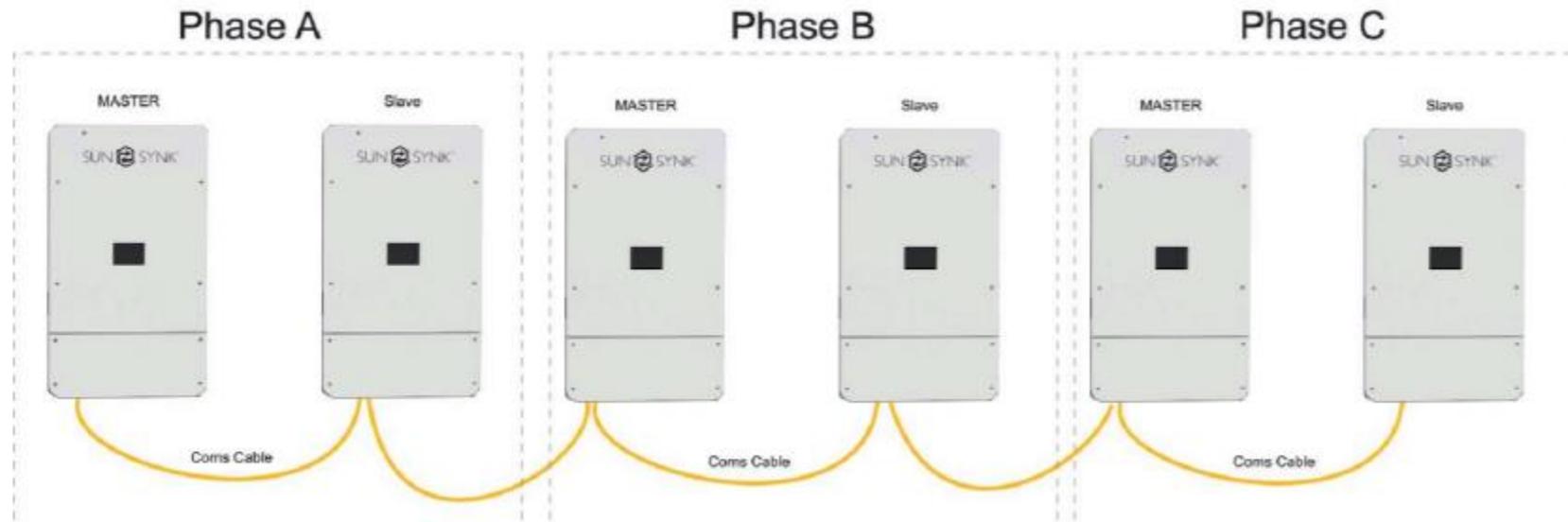


Sunsynk 3 Phase / Parallel

SYSTEM SCHEMATICS

THREE PHASE AND PARALLEL

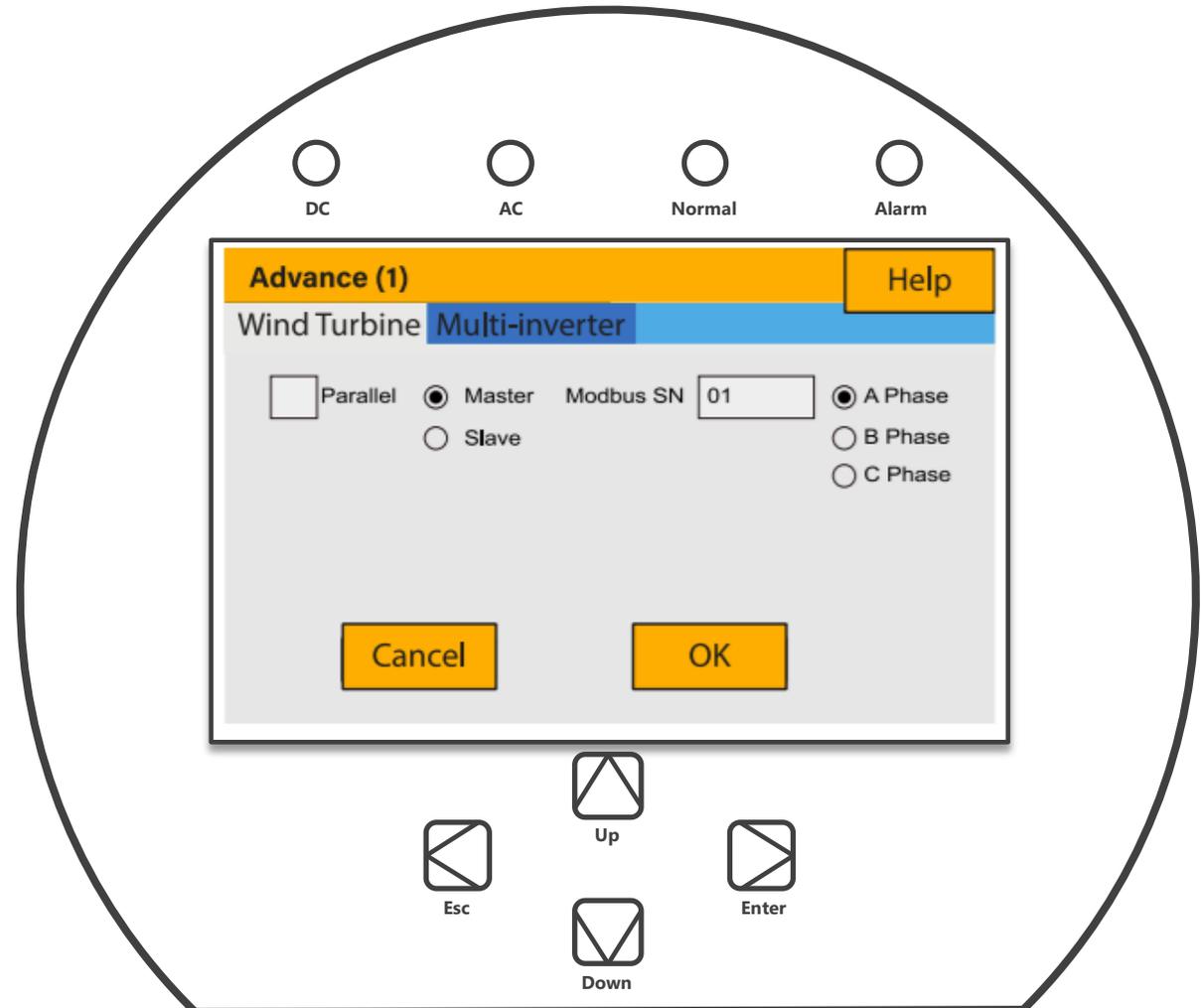


START WITH PARALLEL 2 GOING TO 1, THEN REPEAT.

PROGRAMMING

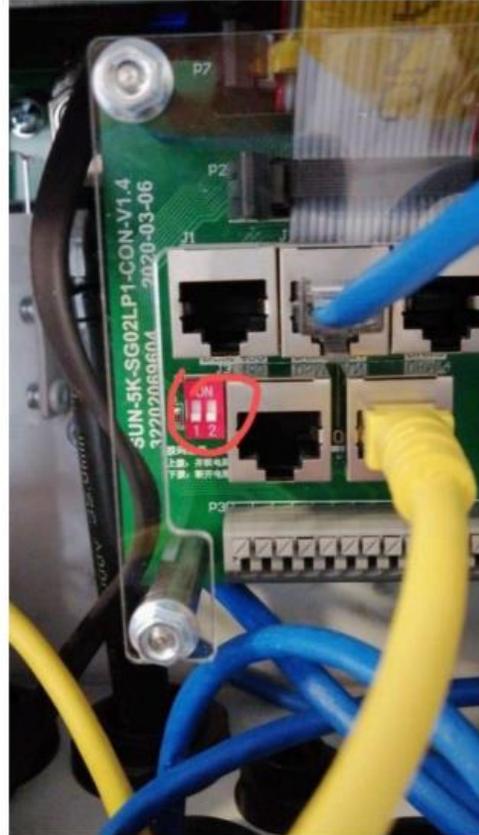
3 PHASE AND PARALLEL SYSTEMS

1. Check all inverters have the same firmware and are the same model.
2. Select Parallel.
3. Select master for master inverter, there will be 1 per phase.
4. Each inverter NEEDS its own modbus SN. 01, 02, etc
5. Select phase A, B or C
6. For slave on a phase select slave
7. Change Modbus SN to its own MODBUS number 02, 03, etc
8. Select phase A, B or C
9. Press ok to save.
10. Each Inverter needs its own data logger
11. Each master needs to have a CT measuring its phase.
12. All connected to 1 battery bank.
13. Master inverter Phase A communicates with BMS of battery



DIP SWITCH

Inside inverter dip switches should be up on master inverters per phase.
Dip switches should be down on each slave inverter.



ON: 1 1

OFF: 0 0

VERY IMPORTANT: EARTH NEUTRAL BRIDGE

- A TEMPORARY EARTH NEUTRAL BRIDGE NEEDS TO BE WIRED EXTERNALLY WHEN GRID IS DISCONNECTED. SEE DIAGRAM
- IF NOT YOU RISK **DAMAGING** YOUR EQUIPMENT AND THE ESSENTIAL CIRCUIT EARTH LEAKAGE WILL NOT WORK.

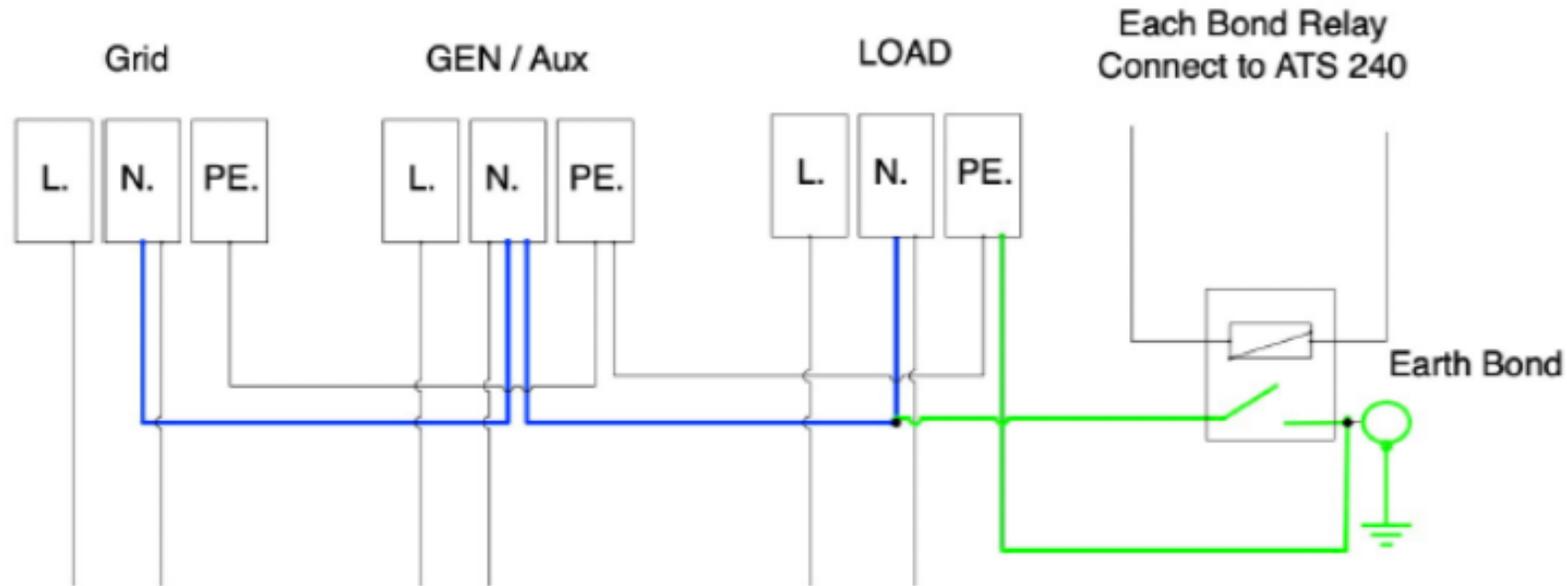
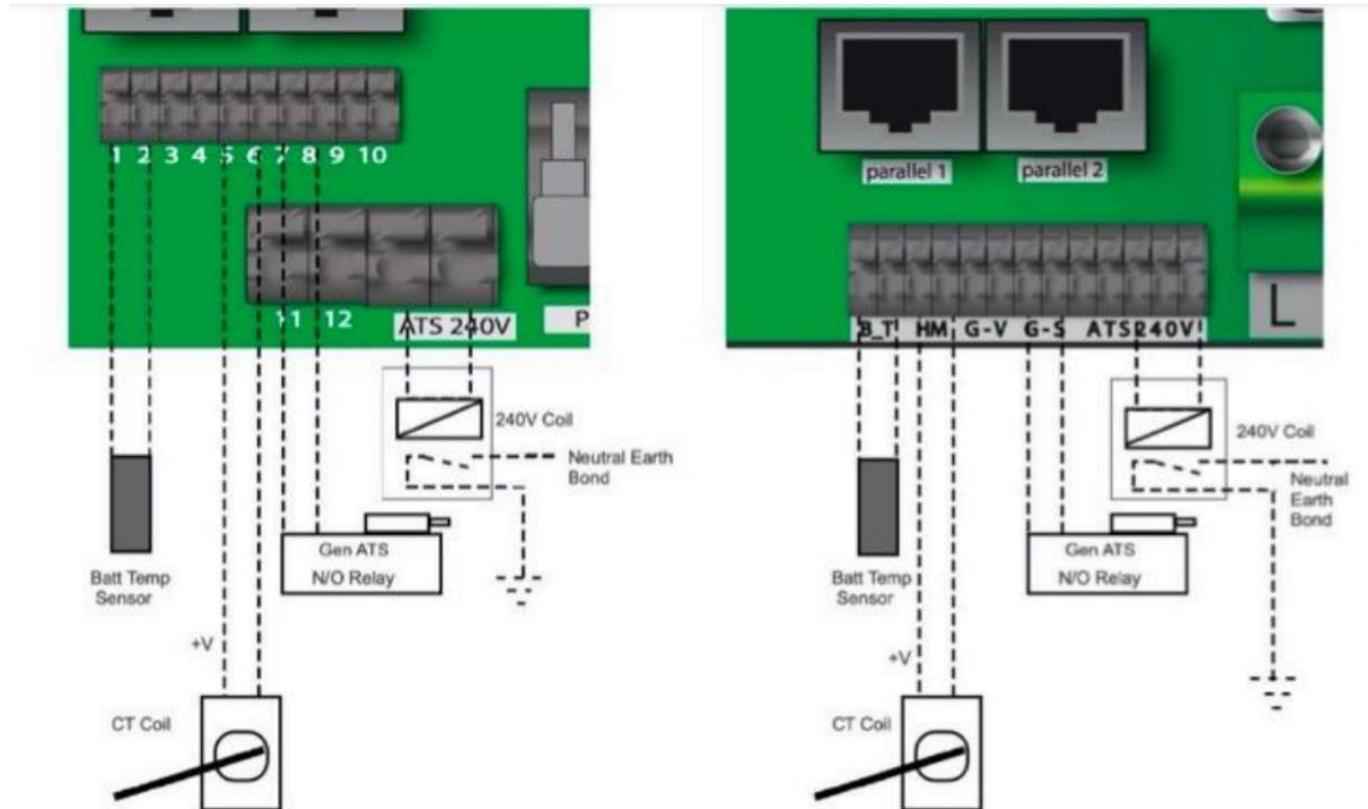


Figure 41 - Earth bond.

VERY IMPORTANT: EARTH NEUTRAL BRIDGE

- 230V IS AVAILABLE AT ATS 240 OUTPUT TO SWITCH AN EXTERNAL CONTACTOR OR RELAY TO CREATE AN EARTH NEUTRAL BOND



VERY IMPORTANT: EARTH NEUTRAL BRIDGE

- TO ACTIVATE ATS SELECT SIGNAL ISLAND MODE

The screenshot shows a 'Battery Setup' window with a yellow title bar and a 'Help' button. The window is divided into three tabs: 'Batt type', 'Batt Charge', and 'Shut Down'. The 'Shut Down' tab is active. The interface includes several input fields and checkboxes:

- Amps:** Two input fields, both set to '0A'.
- Gen Charge:** An unchecked checkbox.
- Grid Charge:** An unchecked checkbox.
- Gen Signal:** An unchecked checkbox.
- Grid Signal:** An unchecked checkbox.
- Signal Island Model:** A checked checkbox (indicated by an 'X').
- Float V:** An input field set to '0.0V'.
- Absorption V:** An input field set to '0.0V'.
- Equalization V:** An input field set to '0.0V'.
- Equalization Duration:** An input field set to '0 days'.
- Equalization Time:** An input field set to '0.0 hours'.
- GEN MAX RUN TIME:** An input field set to '0.0 hours'.
- GEN DOWN TIME:** An input field set to '0.0 hours'.

At the bottom right, there are two buttons: 'Cancel' and 'OK'.