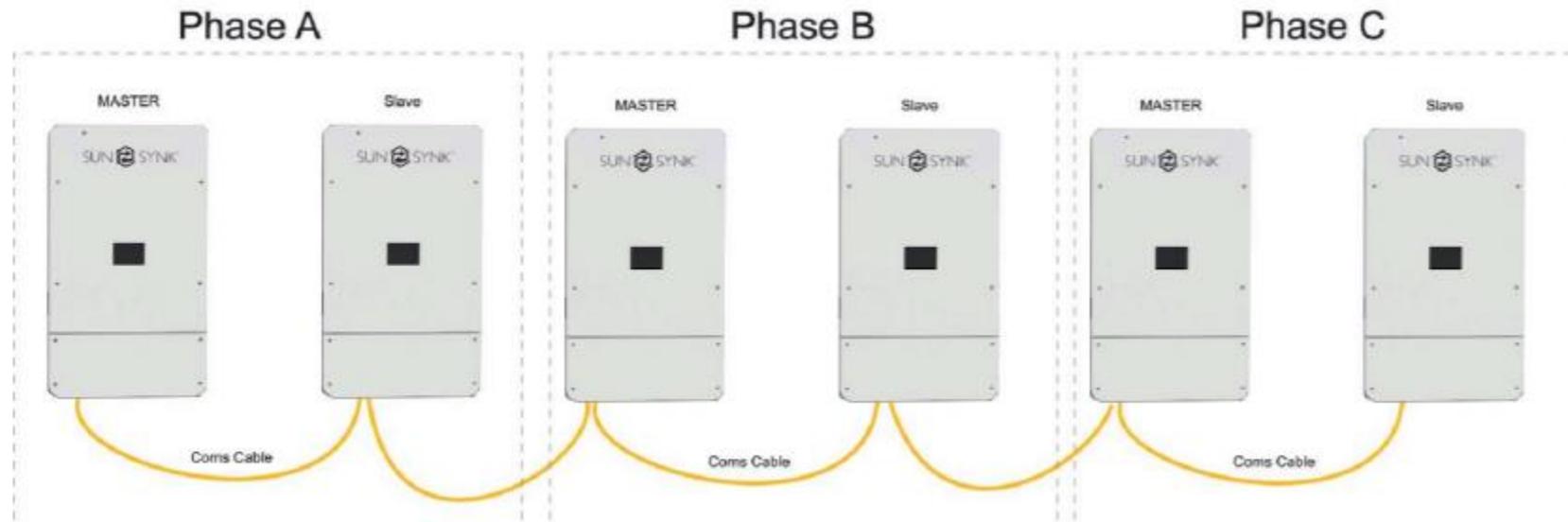# Sunsynk 3 Phase / Parallel

# 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
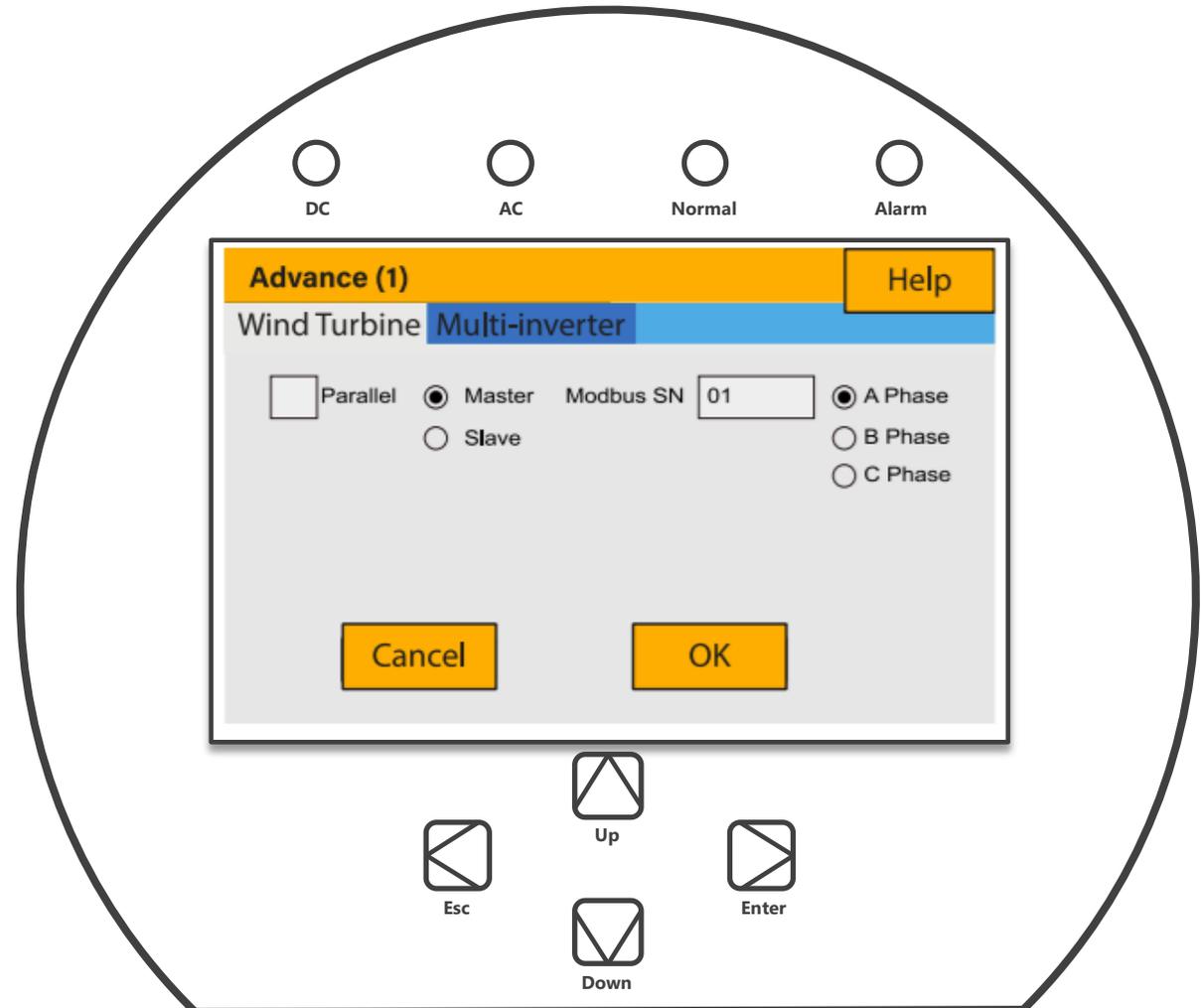
DIP SWITCH

Inside inverter dip switches
should be up on master
inverters per phase.
Dip switches should be down on
each slave inverter.
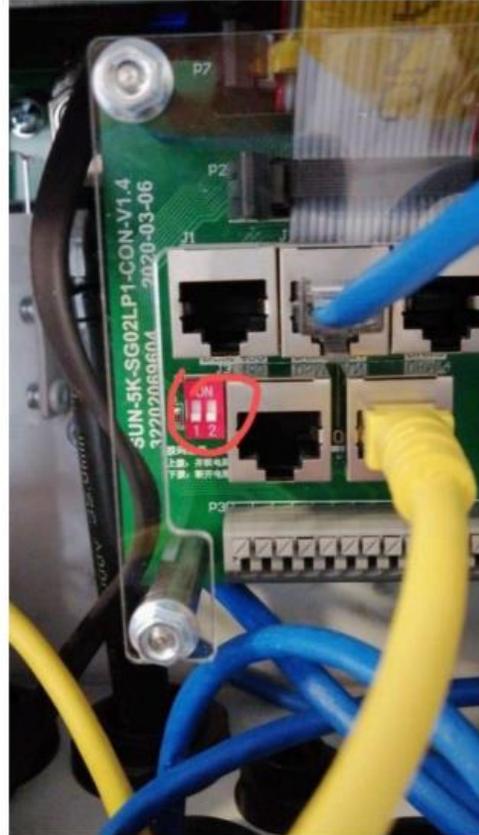
ON: 1 1

OFF: 0 0

VERY IMPORTANT:
EARTH NEUTRAL BRIDGE

- A TEMPORARY EARTH NEUTRAL BRIDGE NEEDS TO BE WIRED EXTERNALLY WHEN GRID IS DISCONNECTED. SEE DIAGRAM

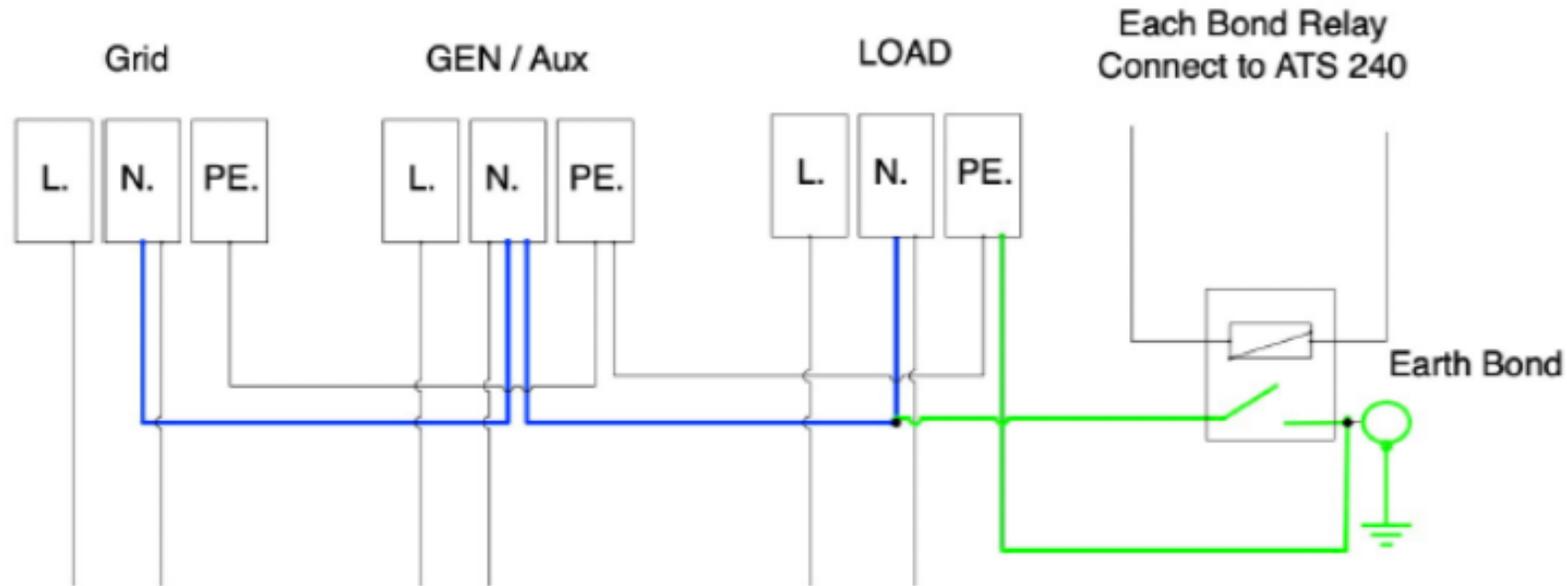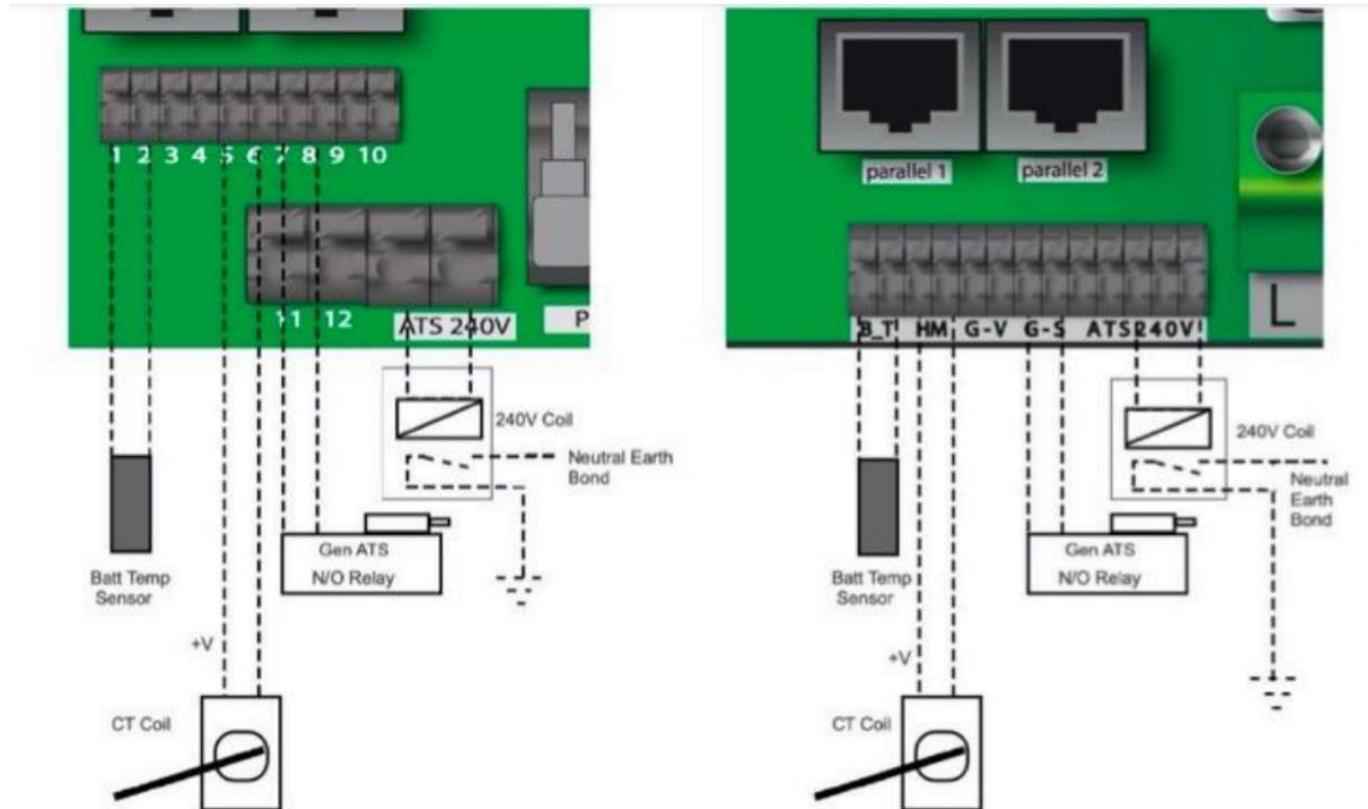- IF NOT YOU RISK DAMAGING YOUR EQUIPMENT AND THE ESSENTIAL CIRCUIT EARTH LEAKAGE WILL NOT WORK.

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