

Knowledge Base Article

What Are the NV7600 Pre-Commissioning Steps?

Prior to turning on the inverters and performing commissioning:

1. Verify the wiring is correct according to the installation instructions and SLD.
2. Conduct a continuity test (there should be no tone between the tested conductors:
 - a. Battery positive and negative
 - b. Grid, GEN and Load: L1-L2, L1-N, L2-N

Prior to connecting the PV wires to the inverter MPPTs perform the following tests.

3. Note: ensure your PV voltage is in the safe operating range and your RSS is active.
 - a. Perform a polarity test.
 - b. Test positive and negative wire to ground. (there should be no continuity)
 - c. Verify MPPTs are within spec. (less than 500V max, operating range 150V - 425V / per MPPT)
4. Ensure in multi-inverter setups that your identified L1 and L2 phase conductors at the MSP are the same throughout the installation.
5. Ensure that the main CTs are clipped to the right phase conductor ahead of the MSP main breaker. (Caution some main breakers in the MSP are phase revers between line side lugs and breaker bus, check manufactures panel sticker. If information is not available, perform voltage test to determine the right phase identification from line side lugs to breaker bus.)

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6. Check PV-DC wire polarity (keep DC switch on the left side of the inverter OFF. This switch is for PV only. (note: ensure the inverter is completely powered down prior working on the PV DC conductors))
7. Turn OFF backup load panel inverter input breaker(s).
8. Keep grid breaker to inverter OFF.
9. Test each battery voltage by turning the battery breaker on and BMS ON/OFF push button. Perform voltage test for each battery by the inverter battery connection terminals. (battery voltage should be above 50V)
10. After completion of each battery voltage test turn on all battery breakers and BMS switches. Verify there is BMS communication. Easy way to verify there is BMS communication is by clicking on the battery icon on the LCD screen, on the bottom right hand corner you'll see Li-BMS. Click on Li-BMS, it will show additional BMS readings.
11. Power on inverter by pushing "green" ON/OFF push button on the left side of inverter. Display screen will turn on and grid Icon will show "off-grid".
12. Perform system commissioning