ABB solar inverters
Quick Installation Guide
PVI-5000/6000-TL-OUTD

In addition to what is explained below, the safety and installation information provided in the installation manual must be read and followed. The technical information and the interface and management software for the product are available at the website. The device must be used in the manner described in the manual. If this is not the case, the safety level guaranteed by the manufacturer will be void.

1. Introduction
- The labels on the inverter have the Agency markings, main technical data and certification of the equipment and manufacturer.
- The labels attached to the equipment must NOT be moved, damaged, dirtied, hidden, etc...
- If the service password is requested, the field to be used is the serial number: SN: YYWWSSSSSS-

2. Assembly Instruction
- Assembly Instruction

3. Available components
- Available components

4. Equipment weight
- Equipment weight

5. Environmental checks
- Environmental checks

6. Mounting to the Wall
- Mounting to the Wall

7. Input configuration (DC)
- Input configuration (DC)

8. Facility layout
- Facility layout

9. All versions of the inverter are equipped with two input channels (therefore with double maximum power point tracker MPPT) independent of each other, which can however be connected in parallel using a single MPPT.

10. Power and productivity for a better world™
9. Fault protection breaker (AC disconnect switch) and line sizing

- To isolate the AC connection line of the inverter, recommended to install a device for protection against over current and backflow with the following characteristics:
  - Using a protective device certified by the manufacturer and in accordance with IEC 60898-1.

ABB declares that the ABB transformerless inverters, in terms of their construction, do not inject current into ground fault currents and therefore there is no requirement for the differential protection involved in the installation of the inverter type B in accordance with IEC 60364-4-41.

- Using corresponding parts that are not compatible with the quick fit connector models on the inverter could cause severe damage to the unit and invalidation of the warranty.

- Connect all the wires in the direction of the system, always checking the tightness of the connectors and checking the input polarity is correct.

- If some of the wiring inputs should not be used, you must proceed to verify the presence of covers on DC input connectors and then connect them. The absence of covers is not necessary for the tightness of the inverter and avoiding damaging the free connector could be done at a later date.

10. Warnings! Before performing any of the operations described below, ensure the AC line downstream the inverter is electrically isolated from the grid and from the photovoltaic generator.

- Remove the protective film on the location of the hole used to feed the AC cables.
- Install the MCK cables glued on the table and secure it using the special MCK lock nut (supplied with the inverter).

- Warning! To ensure environmental protection (IP65) it is necessary to feed the cable glue to the inverter through a minimum of 6.8 mm.
- Strip 10–12-13 mm of sheathing from the AC grid connection cables.
- Plug the AC line cable into the inverter, passing it through the previously installed cable gland (supplied with the inverter).
- Connect the protective earth (yellow-green) cable to the terminal labelled with the letter “L”.
- Connect the phase cable to the terminal labelled with the letter “N”.
- Connect the terminal block (REM) to the DC input voltage.

- Warning! ABB inverters are equipped with a DIP switch (via), consisting of 2 lines of 16 characters each, which can be used to:
  - Display the system’s technical data
  - Display the service messages for the operator
  - Modify the settings of the inverter
  - Change the settings of the inverter
  - Changing the settings of the inverter

- During the normal operation of the inverter, the display shows the GENERAL INFORMATION. This information relates to the input and output parameters of the inverter, the error messages, the statistical data, and the general information parameters.

- Press ESC to access the three main menus, which have the following functions:
  - SETTINGS: Display the statistics
  - INFO: Modify the settings of the inverter
  - HELP: View service messages for the operator

- Refer to the manual for details regarding use and functions available in the menu.