ABB solar inverters
Quick installation guide
UNO-2.0/3.0/3.6/4.2-TL-OUTD
(from 2.0 to 4.2 kW)

1. The labels on the inverter carry the branding, the main technical data and the identification of the equipment and the manufacturer.

2. The inverter models to which this installation guide refers are available in four power ratings: 2.0 kW, 3.0 kW, 3.6 kW and 4.2 kW.

3. When you open the package, check that the equipment is undamaged and make sure all the components specified are present. If any defects or damages are detected, please stop operating, contact the dealer and also promptly inform the ABB Service Department.

4. Environment considerations
- Consult the technical data to check the environmental conditions to be observed.
- Installation of the unit in a location exposed to direct sunlight must be avoided (otherwise the warranty will be cancelled)
- Always ensure that the flow of air around the inverter is not blocked so as to prevent overheating.
- Do not install in small closed rooms where air cannot circulate freely.
- Consult the technical data to check the environmental conditions to be observed.
- If the space available does not allow this arrangement, position the inverters in 2 slots on the inverter.
- Install at a height that takes account of the weight of the equipment.
- Protection rating of the own inverter, it is necessary to use the same model and the respective counterpart (check the technical data).

5. Environmental checks
-Consult the technical data to check the environmental conditions to be observed.
- Installation of the unit in a location exposed to direct sunlight must be avoided (otherwise the warranty will be cancelled).
- Always ensure that the flow of air around the inverter is not blocked so as to prevent overheating.
- Do not install in small closed rooms where air cannot circulate freely.

6. Installation site
- Install on a wall or on a strong structure capable of bearing the weight of the equipment.
- Install in a safe, easy-to-reach place.
- If possible, install at a maximum height that allows access to the wires of the equipment.
- Install vertically with a maximum inclination of 7° (forward or backward).
- Choose a place where the ambient temperature does not exceed 40°C (in the event of high summer temperatures). The maximum ambient temperature is 50°C.
- In the case of mobile installation position the inverters alongside each other.
- To allow this arrangement, position the inverters in a staggered arrangement as shown in the figure so that heat dissipation is not affected by other inverters.

7. Check for correct polarity in the input strings and absence of any leakage ground in the PV generators. When exposed to lightning, the PV panels supply DC voltage to the inverter.

8. The inverter has a single input channel (MPPT) and is equipped with a pair of quick fit connectors to connect the PV generator.

9. The inverter model to which this installation guide refers is available in four power ratings: 2.0 kW, 3.0 kW, 3.6 kW and 4.2 kW.

10. Environment considerations
- Consult the technical data to check the environmental conditions to be observed.
- Installation of the unit in a location exposed to direct sunlight must be avoided (otherwise the warranty will be cancelled).
- Always ensure that the flow of air around the inverter is not blocked so as to prevent overheating.
- Do not install in small closed rooms where air cannot circulate freely.

11. The inverters referred to in this document are TRANSFORMERLESS. This typology implies the use of insulated photovoltaic modules.

12. The installation must be carried out in strict accordance with the technical data and the technical documentation provided by the manufacturer. In case of doubt, contact the manufacturer or the service department.

13. The inverters must be installed in accordance with the technical documentation of the manufacturer. If the inverters are not installed in accordance with the technical documentation, the warranty is void.

14. Power and productivity for a better world**
Load protection breaker (AC disconnect switch) and line side wiring. 

Click the icon to configure the connection signals (RS485 lines). 

Warning! Before performing any of the operations described below, ensure the AC line downstream from the inverter has been correctly connected. 

1. Press the button at the top of the operation panel to change the display from the idle state to the main menu or the submenu for the selected parameter. 

Note. Features not specifically mentioned in this data sheet are not included in the product.