ABB solar inverter
UNO-DM-6.0-TL-PLUS (6.0 kW)

1. Regulatory Label

The labels placed on the equipment absolutely MUST NOT to be removed, damaged, dirtied, rubbed, etc.

In the manual, similar in some cases on the equipment, the danger or attention zones are indicated by signs, labels, symbols or icons.

2. The following variants are available (suffixes could be combined):

• Models with “S” suffix (e.g. UNO-DM-6.0-TL-PLUS-S): Models equipped with wireless communication.
  - Models equipped with DC disconnecting switch.
  - Models equipped with DC disconnecting switch.
  - Models equipped with AC disconnecting switch (only -S models).

• Models with “B” suffix (e.g. UNO-DM-6.0-TL-PLUS-B): Models equipped with AC disconnecting switch.
  - Models equipped with wireless communication and Accessories Board equipped with Ethernet board (all models except -S models).
  - Models equipped with -S models.

• Models with “X” suffix (e.g. UNO-DM-6.0-TL-PLUS-X): Models equipped with Accessories Board (UNO-28A COM KIT).

Models with “+” suffix (e.g. UNO-DM-6.0-TL-PLUS+): Models equipped with AC disconnecting switch.

3. Main components

- Bracket
- Lock spring
- Anti-corrosion valve
- Front Cover
- LCD panel
- Display
- DC Input Connectors
- AC cable gland
- AC Input terminal block
- No. 8 screws (A4)
- Wireless antenna connector
- Service cover gland
- Screwing Screw

4. Place and position of installation

- Transportation and relocation of the equipment.
- In particular, the device must be handled with adequate care and attention to avoid any risk of damage or injury to personnel.
- The means used for lifting must be suitable to bear the weight of the equipment.
- The packaging components must be removed and disposed of according to the applicable regulations of the country where the device is installed.
- The inverter must be installed in an upright position with a maximum inclination as shown in the figure.
- Heatsink
dissipation is not affected by the other inverters.
- If the space available does not allow this provision, position the inverters in a common location (e.g. type of surfaces around the inverter, general properties of the room, noises that may cause damage to the unit and result in the immediate
damage the equipment disconnected from the grid and from the power generator.
- Do not place the inverter in case of risks or height.
- Place the inverter level on the wall and use it as a ceiling support.
- Do not touch the inverter while it is in operation.
- Do not use the inverter if the equipment is damaged.
- Observe the overload limits.
- The use of non-compliant counterparts with respect to the quick-coupling connectors models in the manual, similar in some cases on the equipment, the danger or attention zones are indicated by signs, labels, symbols or icons.
- The independent channel model must be connected to the independent channel of the connected inverter.
- The wired connection must be made using the dedicated connection kit (found on your inverter).
- The equipment must be connected to the independent channel model of the connected inverter.
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Commissioning and configuration of the inverter can be made using a wireless device such as a smartphone, tablet or laptop.

The steps for commissioning are listed below:

1. Set the inverter's DC disconnect switch (for DC version) or any external DC switches to “OFF” position. If the input voltage applied to one of the two inverters is greater than the maximum allowed voltage, the inverter will shut down.

2. Connect the neutral cable (normally blue) to the terminal labelled with the number 1. The product key is printed on the “wireless identification label” on the side of the inverter or previously attached to this quick installation guide (see cover page).

3. Open the internet browser (recommended browser: Chrome versions from v55, Firefox versions from v55, Safari versions from v10.2.1) and enter the pre-SIP address to configure the access parameters: 192.168.117.1.

4. A configuration wizard will open, describing a sequence of steps in which all the required fields must be filled correctly. Language of the wizard can be selected in the upper status bar. The steps and information required by the configuration wizard are:

   - The grid standard may vary depending on specific country grid standard. CE, 50Hz only.
   - The AC voltage range may vary depending on specific country grid standard.
   - Grid ratings can vary depending on specific country grid standard.
   - The Frequency range may vary depending on specific country grid standard. CE, 50Hz only.

5. Once the connection to the terminal block is complete, screw in the cable gland firmly (tightening torque 5.0Nm) and check the tightness.

6. Before proceeding with commissioning, make sure that you have properly disconnected the AC line downstream of the inverter. The steps for commissioning are listed below:

   1. Press the “Power” LED remains fixed on while the “Alarm” and “GFI” LEDs are off.
   2. If the preliminary checks for parallel connection to the grid are successful, the inverter connects to the grid and begins to export power to the grid.

   3. The steps for commissioning are listed below:

   4. If the preliminary checks for parallel connection to the grid are successful, the inverter connects to the grid and begins to export power to the grid.

   5. From the moment that the grid standard is set, you have 24 hours to make any changes to the value, after which the “Country Select” functionality is blocked and the user must have 24 hours in operation available again. To select a new grid standard follow the procedure “Respecting the remaining time for grid standard variant” described in the product manual.

   6. If the preliminary checks for parallel connection to the grid are successful, the inverter connects to the grid and begins to export power to the grid.

   7. The “Power” LED remains fixed on while the “Alarm” and “GFI” LEDs are off.

   8. Refer to the product manual for further information about the configuration and the use of the functionality of the internal Webserver.

   9. Commissioning and configuration of the inverter can also be done via the display. Consult the product manual for more information.

   10. The steps for commissioning are listed below:

   11. If the preliminary checks for parallel connection to the grid are successful, the inverter connects to the grid and begins to export power to the grid.

   12. The “Power” LED remains fixed on while the “Alarm” and “GFI” LEDs are off.

   13. Refer to the manual for details regarding use and functions available in the menu and for details regarding alarm and fault messages.

   14. Display menus may differ from previous structure depending on firmware installed in the inverter. Firmware version can be displayed accessing to the display menu. Inverter > INV > Firmware.

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