**ABB Solar Inverters**

**Quick Installation Guide**

**UNO-2.0/2.5-I-OUTD**

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**1. Choice of Installation Location**

- Choose a location away from high-voltage lines and any other equipment that generates interference.
- Ensure the area is well-ventilated and free from direct sunlight.
- Avoid installing the inverter in areas with high humidity or moisture.

**2. Inverter Models and Components**

- **UNO-2.0-I-OUTD**
  - DC disconnect switch
  - PV voltage > Vstart
  - UNO-2.0-I-OUTD
  - Mass weight: 17 Kg
  - AC voltage value
  - Quantity
  - Number of input channels: 1
  - 2: warnings, alarms, channels, voltages, etc.
  - MPP scan running
  - 1
  - To avoid overheating, always make sure the flow of air around the inverter is not blocked.
  - UNO-2.5-I-OUTD
  - UNO-2.5-I-OUTD-S
  - Number of input channels: 1
  - Number of input channels: 2
  - Input connections: quick fit connectors (1 pair)
  - Main components
    - Inverter
    - AC input connectors
    - Front panel
    - Display
    - Female quick fit connectors
    - Male quick fit connectors
    - Bracket and screws for lead sealing the AC connector
    - Bracket and screws for lead sealing the AC connector

**3. Environmental clues**

- Consult the technical data to check the environmental parameters to be observed.
- To ensure the correct operation of the inverter, it must be installed in a location where the ambient temperature is between -25°C to +60°C.
- For outdoor installations, always use the protective cover to prevent dust and rain.

**4. Instructions for safe handling and installation**

- **Transport and handling**:
  - The inverter must be transported in its original packaging to avoid damage.
  - Lift the inverter by the lifting points indicated on the label.
- **Components**:
  - **UNO-2.0-I-OUTD**
    - DC disconnect switch
    - UNO-2.0-I-OUTD
    - Mass weight: 17 Kg
  - **UNO-2.5-I-OUTD**
    - UNO-2.5-I-OUTD-S
    - Number of input channels: 1
    - Number of input channels: 2
    - Input connections: quick fit connectors (1 pair)

**5. Lift the inverter over the lifting points indicated on the label.**

- **6. Components available for models**

**7. Wall-Pak mounting**

- **Standard Version**
  - During installation, do not place the inverter with the front cover facing towards the wall.
  - Fix the inverter to the wall using the wall-plates and screws specified in the manual.
  - To install the inverter, use the screw holes indicated on the label.
  - Insert the screws and spacer, then fix the front cover.
  - Once the connections have been made, proceed with the installation of the front cover.

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**LEDs and buttons**

- GREEN: On the inverter is working correctly. Flashes when checking the grid or if there is insufficient sunlight.
- ALARM LED: The inverter has no alarm to check.
- GFI LED: Ground fault on the DC side of the input voltage.

**Installation position**

- Horizontally or vertically, with a maximum inclination of ±5°.
- To carry out maintenance of the equipment, the covers on the front must be removed. Check that there are no defects or indications of overheating or any other equipment that generates interference.

**Final installation of the inverter must not compromise access to any connection devices that may be installed externally.**

Please refer to the warranty terms and conditions available on the website and evaluate any possible exclusion due to improper installation.
The inverter performs a control of grid parameters. The icons, which represent the grid distribution, can have different statuses:

- **Connections of the inverters to the grid**: Each inverter must be connected to the inverters of the communication and control signals must pass through the two service cable glands shown in the image. The available cable glands are two M20 that can take a cable with a diameter of 7mm to 13mm. Two-hole gaskets are supplied for inverters in the cable gland, which allow two separate cables with cross section of up to 5mm to go through.

- **The inverter starts to operate and indicates its correct operation by making a sound and by the encryption status**. The icons on the whole line will come on steady.

- **The maximum numbers of input strings which can be connected is 2**. The connection sequence has to be made for the inverter to start operating.

- **The inverters are connected up to the inverter to the distribution grid is important to set the country standard by manipulating the two rotary switches a09**. Table: country standard and language.