Solar inverters
Quick installation guide
MICRO-0.25/0.3/0.3HV-I-OUTD-US-208/240

In addition to what is explained in this guide, the safety and installation information provided in the technical manual must be read and followed. The technical manual is available on the ABB website in English, Spanish, and Chinese. Compatibility with the software for data communication and management for the product are available at the website.

Electrical Warnings
- The PV panels supply DC input voltage to the inverter when they are exposed to light. The installation must be carried out with the equipment disconnected from the grid and with the photovoltaic panels at a voltage of less than 120V DC. When choosing installation placement, comply with the following:
  - System earth conductor (main grounding protective earthing, PC) must be at least 6AWG., torque to 2Nm (17.7 in-lb).
  - The EGC is incorporated in the AC trunk cable. The inverter must be earth grounded using the correct clamp secured to the chassis. There are two possible configurations:
    - System earth conductor through racking system: 6 mm (1/4") mounting hardware: 5 N m (45 to 50 in-lbs).
    - AC grounding electrode conductor coupling all the MICRO inverters: The conductor must have a minimum cross section of 5 AWG, torque to 2Nm (17.7 in-lbs).

System components
- The AC-TRUNK-BUS cable (and relevant accessories) are available in 3 configurations, 41", 67", or 81" depending on the type of installation and PV panel used. The installer may cut the cable to length needed for the specific installation.
- The AC-TRUNK BUS cable coming from the MICRO inverters.
- Plug the DC cables into the corresponding inputs on the MICRO inverters.
- Connect the AC-TRUNK cable/s coming from the MICRO inverters to the junction box or to the AC distribution panel.
- Use the duplicate label in the attached plastic bag to create the system inventory.
- The CDD device necessary for monitoring and collecting data from the MICRO inverters.

Important Safety Instructions
SAVE THESE INSTRUCTIONS—KEEP IN SAFE PLACE!

1. IMPORTANT SAFETY INSTRUCTIONS
   SAVE THESE INSTRUCTIONS—KEEP IN SAFE PLACE!

2. System earth conductor
   - System earth conductor (main grounding protective earthing, PC)
   - The AC-TRUNK PLUG CAP must be used to disconnect the AC connector from the MICRO Inverter or to remove the AC-TRUNK PLUG CAP from the connectors on the AC-TRUNK cable.

3. Assembly Instruction
   - The installation must be carried out with the equipment disconnected from the grid and with the photovoltaic panels at a voltage of less than 120V DC.
   - The AC-TRUNK-UNLOCK TOOL must be used to disconnect the AC connector from the MICRO Inverter or to remove the AC-TRUNK PLUG CAP from the connectors on the AC-TRUNK cable.
   - Plug the DC cables into the corresponding inputs on the MICRO inverters.
   - Connect the AC-TRUNK cable/s coming from the MICRO inverters to the junction box or to the AC distribution panel.
   - Use the duplicate label in the attached plastic bag to create the system inventory.

4. System components
   - The AC-TRUNK-BUS cable (and relevant accessories) are available in 3 configurations, 41", 67", or 81" depending on the type of installation and PV panel used. The installer may cut the cable to length needed for the specific installation.
   - The AC-TRUNK BUS cable coming from the MICRO inverters.
   - Plug the DC cables into the corresponding inputs on the MICRO inverters.
   - Connect the AC-TRUNK cable/s coming from the MICRO inverters to the junction box or to the AC distribution panel.
   - Use the duplicate label in the attached plastic bag to create the system inventory.

5. Assembly Instruction (continued)
   - The AC-TRUNK-END CAP must be used to cover the ends of the AC-TRUNK cable.
   - Do not exceed the maximum number of MICRO INVERTERS.
   - Attach the AC-TRUNK cable to the frame using cable ties every 1.5m.
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6. Assembly Instruction (continued)
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   - Do not exceed the maximum number of MICRO INVERTERS.
Acquire and configure the MICRO inverters of the system using the CDD device.

Follow these steps to configure and start the MICRO inverters:

1. Connect the MICRO inverters to the system. When connecting the inverters in the distribution grid, the configuration is made with the CDD.

2. The CDD interface detects the connected inverters and displays their status.

3. The CDD configuration uses the system limitations to prevent overloading of the distribution grid.

4. When the configuration is complete, the system starts running. The inverter will not be energized until the distribution grid is connected to the CDD.

5. The CDD also performs ground fault detection and supervision, ensuring the safety of the installation.

6. For further information, refer to the CDD Instruction Manual or CDD Quick Installation Guide.