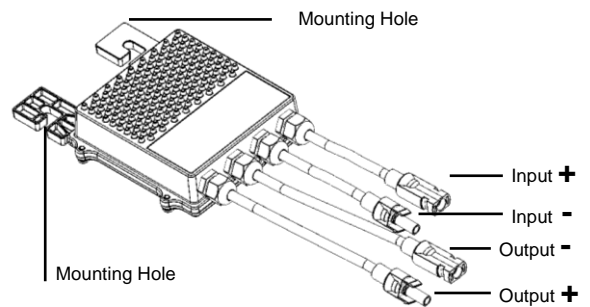


3-Phase System Quick Installation Guide

NOTE: For full installation and safety details you must refer to the *SolarEdge Installation Guide*. Make sure you read and fully understand and follow the detailed instructions in the *SolarEdge Installation Guide* in any installation. **Failure to do so could result in injury or loss of life and damage or destruction of the equipment.**

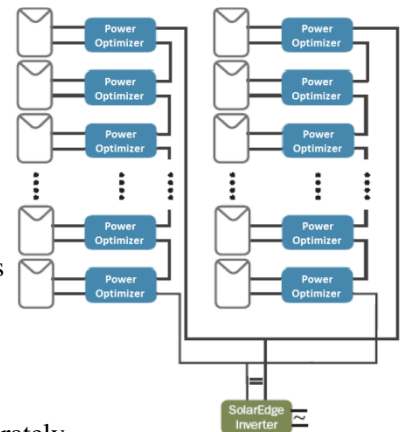
Step 1: Connecting Optimizers to Panels

- 1 Mount the optimizers in a shaded location near the PV modules on the structure or racking to which the module is attached using both mounting holes. Avoid mounting optimizers in locations where they will be exposed to direct sunlight. Make sure that each optimizer is positioned within reach of each panel's cables.
- 2 Verify polarity and connect the panels to the optimizer inputs.



Step 2: Connecting Optimizers to a String

- 1 Make sure that the Inverter's ON/OFF switch is switched OFF during installation.
- 2 Connect the optimizers' outputs in a series.
 - The minimum string length is 15 optimizers.
 - As a rule of thumb, use 2 strings on the 12.5 kW inverter, 1 string otherwise.
 - Strings **DO NOT** have to be the same length.
- 3 **Verify proper connection:** Before Inverter is turned ON, each optimizer produces *IV safety-voltage*, which should be verified for each string with a voltmeter. The voltage on a string is the number of modules multiplied by 1V, with a deviation of 10mV per panel.

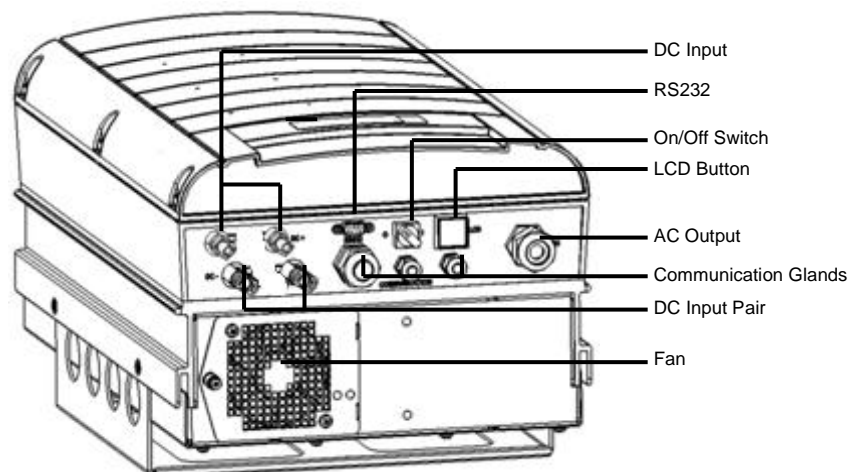


Note: If several strings are connected in parallel, verify voltage for each string separately.

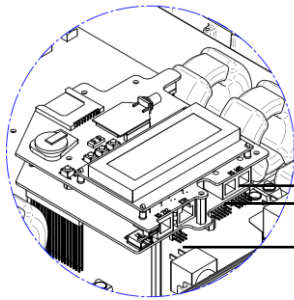
- 4 In order to benefit from the physical mapping of the installation in the SolarEdge Monitoring Portal, you must record each optimizer's location by peeling off its removable barcode sticker, sticking it on the reporting template and then faxing/ mailing it to the SolarEdge support team. Alternatively, use the SolarEdge iPhone Site Mapper app.

Step 3: Installing the Inverter and Connecting the String to the Inverter

- 1 Make sure that the inverter's ON/OFF switch is switched OFF during inverter installation and that the AC circuit breaker is OFF.
- 2 Mount the Inverter on its bracket.
- 3 Leave clearance areas open in order to cool the Inverter: 20cm above and below, 10cm on both sides.
- 4 Connect the DC wires to the DC connectors on the bottom of the Inverter. Check polarity before connecting!
- 5 Open the Inverter's cover by opening the six cover screws.

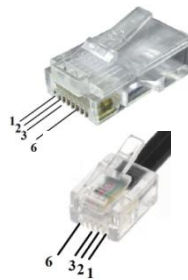


6 Connect the AC cables, the Ethernet cable and the RS485 connections, if necessary.



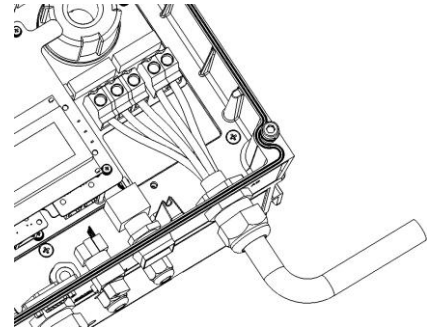
RS485 - RJ11-6 Pin Connectors
Ethernet - RJ45 Connector

Communication Port Location



Top - Ethernet Pin Out

Bottom - RS485 Pin Out



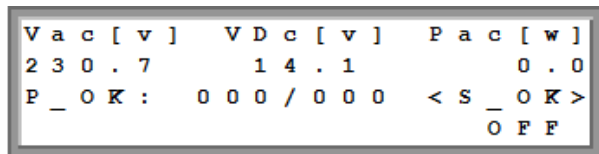
AC Connections

Step 4: Commissioning and Activating the Installation

SolarEdge inverters are designed for global use and must be configured for use in each Country. If the inverter has not been configured it may display a voltage or frequency error at first startup. Incorrect configuration will not damage the inverter but it will not operate normally unless properly configured. Inverter configuration should be verified for all installations at time of installation.

- 1 Turn ON the AC circuit breaker.
- 2 Verify (and set, if required) the correct country code, display language and communication configuration using the Inverter's user buttons and LCD. Enter the menus by pressing ENTER for five seconds and then inputting the password **12312312**.
- 3 Verify the following in the LCD display:

- **P-OK:** Specifies the connected optimizers.
- **S-OK:** Indicates the status of the connection to the SolarEdge Monitoring Server.
- **Vdc[V]:** Shows the total string voltage (1V for each optimizer connected in a series).
- **Vac:** Specifies the grid voltage.
- **Pac:** Is 0w.



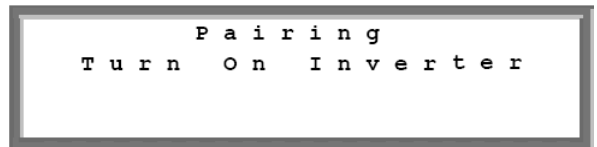
4 Close the Inverter's cover.



WARNING!

Before proceeding to the next step, make sure that the cover is closed! High Voltage DC will be present in the inverter following in the next step!

5 Pair the optimizers to the Inverter by pressing and holding the LCD button for approximately 15 seconds, while the ON/OFF switch is OFF. The following message will appear on the LCD screen:



6 Turn ON the inverter by using the ON/OFF switch. If you fail to turn ON the switch within five second, then restart the pairing step above.

7 At the end of the pairing process, the system will start producing power. Verify on the LCD screen that the number next to **P_OK** equals the number of installed optimizers. It may take up to 15 minutes until all the optimizers display an indication that they are up.



Support and Contact Information

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