

## SolarTech Power Solutions

# How to build a communication base station inverter and connect it to the grid at sea



## Overview

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How does an on-grid inverter work?

For an on-grid system, you will not be using batteries. Thus, unlike the off-grid systems, you will connect the inverter directly to the grid. Plug it into the main power switchboard to join the grid, which acts as the input wire. The other wire, which acts as the output wire, connects to the switchboard, which supplies the current.

How does a grid-tie inverter work?

The grid-tie inverter is configured to a solar meter which later connects to the mains. The meter is used to calculate excess energy from the inverter grid, later stored in a utility grid for future consumption.

How do you connect a grid inverter?

Most people prefer the series connection from on-grid panels because it significantly increases the voltage received by the grid inverter. To do that, you should connect the first panel's positive terminal to the second panel's negative terminal, which connects to the third panel's positive terminal and continues the process.

How does an inverter work?

Correspondingly, the inverter receives the direct current from the grid, passes it to the inbuilt transformers, and outputs alternating current to the switchboard, which supplies the current to the various parts of the house.

How do you connect a solar panel to a switchboard?

To do that, you should connect the first panel's positive terminal to the second panel's negative terminal, which connects to the third panel's positive terminal and continues the process. Also, install the switchboard and a switch that receives current from the solar panel. Caution!

How do you connect a solar inverter to a battery?

Connect the positive terminal of the first panel to the negative terminal of the next panel, which joins to the positive terminal of the third terminal, and the same behavior continues for the remaining panels. In this case, the solar inverter is connected to the batteries.

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