

Rooftop solar installation guide

Let us talk about how to install solar panels. You can use the services of an EPC installer or can do-it-yourself. Given below is the solar installation guide for an off grid solar system which is simple and easy. A prospective solar buyer can read this blog and understand how to install solar panels on his own at his home. We have already discussed about 1 kW rooftop solar system installation.

Rooftop Solar Mounting Structure is used to fix solar panel with it. You can fix both monocrystalline and polycrystalline panel with it. This is ready to use structure of 1 kw, offered by loomsolar . You can connect 4 panel of 270 watt.

The Solar panel tilt angle (the angle between the horizontal ground and the solar module) should be decided according to the latitude of your location anywhere in the world. It is generally believed that the modules placed at a tilt angle equivalent to the latitude of the place, would generate the maximum energy output. You can also use a solar tracker to increase the conversion efficiency.

Once the solar structure is fixed accurately, we will connect it with solar modules. We should ensure that all nuts and bolts of solar modules are fixed with solar structure so that it is properly secured and lasts long.

MC4 connectors are used to connect solar panels. These are universal connectors and can be connected with any type of solar panels. The solar array wiring becomes simpler and faster using MC4 connectors.

Few modern solar modules come with wire leads that have MC4 connectors on the ends, else they have a built-in junction box at the back with wires jutting out. In a series connection you will have to connect the positive wire from one module to the negative wire of another module. In a parallel connection, you connect the positive to positive and negative to negative leads. A parallel connection maintains the voltage of each panel while a series connection increases the voltage in order to match it with the battery bank.

In the picture given below, the backside of an inverter is shown where solar panel wire is connected. Connect the positive wire from the solar panel with the positive inverter terminal and the negative wire with negative terminal of the inverter.

There are other connections too like battery wire connection and output wire connection with the inverter. In all, Solar panel, Solar Battery and Grid input are connected with the solar inverter to produce electricity. The output of a series string of solar modules is connected to the input of the inverter. Make sure the inverter is turned off while the connections are being done.

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