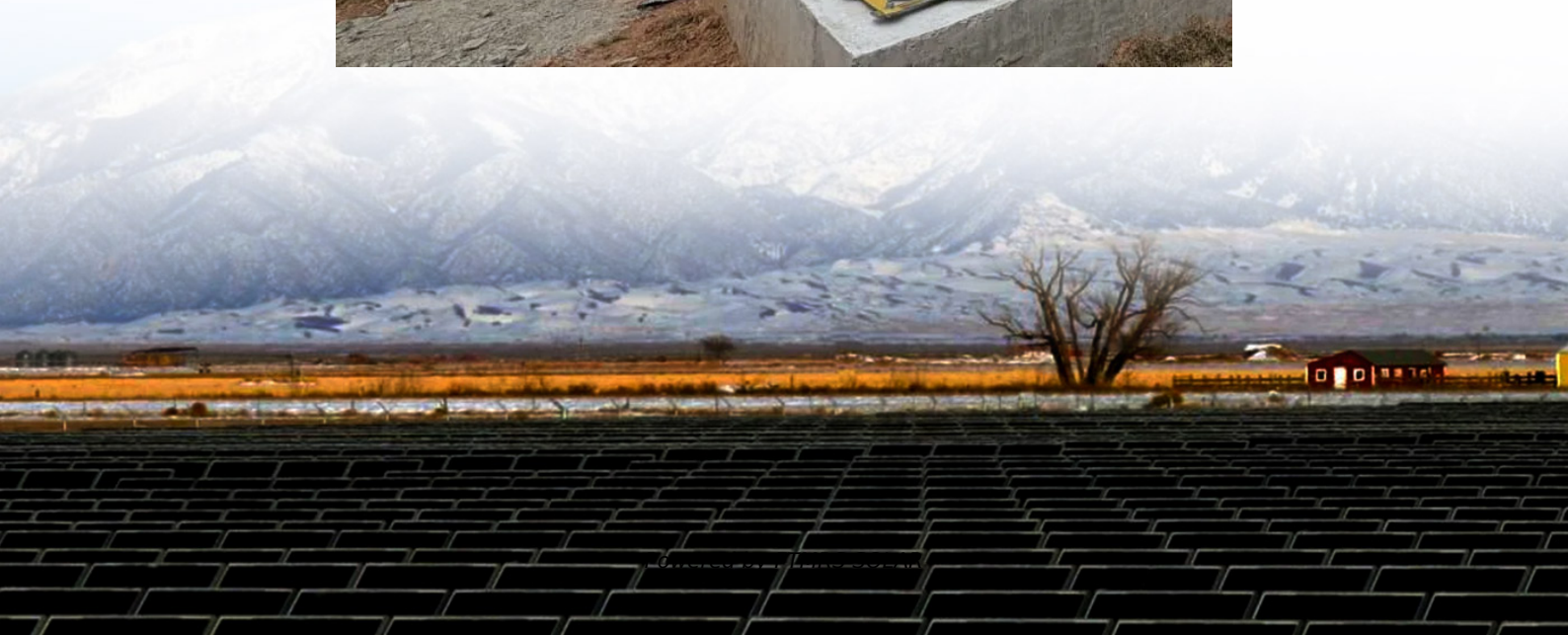


Single row of solar modules connected in series





Overview

What is a series connected solar panel?

Series connected solar panels are called a string, thus the use of the word “string” means that the panels are connected in series. Note that series strings of PV panels can be connected in parallel to increase the total current and therefore more power output. Here ALL the solar PV panels are of the same type and power rating.

Why are solar PV modules connected in series or parallel?

When solar PV system power requirement is higher than the available single module power, then the solar PV modules are connected in series or parallel. A series connection of PV modules is discussed in Section 5.1. Sometimes, instead of series connection of PV modules, a parallel connection is done to increase the power output.

How PV panels are connected in series configuration?

The following figure shows PV panels connected in series configuration. With this series connection, not only the voltage but also the power generated by the module also increases. To achieve this the negative terminal of one module is connected to the positive terminal of the other module.

When n-number of PV modules are connected in series?

When N-number of PV modules are connected in series. The entire string of series-connected modules is known as the PV module string. The modules are connected in series to increase the voltage in the system. The following figure shows a schematic of series, parallel and series parallel connected PV modules. PV Module Array



Single row of solar modules connected in series

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