

Solar Energy South Africa

Analysis of JA Solar Panel Routines



Overview

What is included in the JA Solar Module installation manual?

Thank you for choosing JA SOLAR Modules! This Installation Manual contains essential information for electrical and mechanical installation that you should know before handling, installing JA Solar Modules. This Manual also contains safety information you need to be familiar with.

What types of solar panels does JA Solar offer?

The final category of solar panel modules that JA Solar has to offer are the Bifacial Mono PERC Double Glass modules. There are also 4 options within this category — two 60-cell options and two 72-cell options. Front and Back of JA Solar's Bifacial Modules.

What is the difference between JA Solar and standard solar panels?

JA Solar's standard solar modules also come in a 60-cell or 72-cell count. Here is a table to outline the differences in power output and efficiency for these modules: Outside of power output and efficiency, there are a few other features that differentiate these solar modules. JA Solar's standard panels have limited power degradation.

Can JA Solar make changes to the product specifications or installation manual?

JA Solar reserves the right to make changes to the product, specifications or installation manual without prior notice. Failure to comply with the requirements listed in this manual will invalidate the Limited Warranty for Modules as provided by JA Solar at the same time of sale to the direct customer.

How do JA Solar modules work?

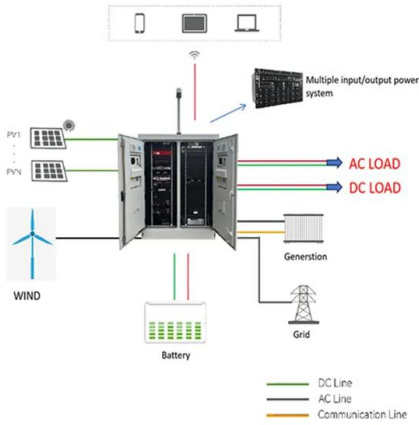
The junction boxes used with JA Solar modules contain bypass diodes wired in parallel with the PV cell strings. In the case of partial shading, the diodes

bypass the current generated by the non-shaded cells, thereby limiting modules heating and performance losses. Bypass diodes are not over-current protection devices.

How efficient are JA Solar panels?

From the above tables, you can see that the power output and efficiency of JA Solar's modules are very comparable with the majority of other solar panels on the market. It is very common to see panels around 15-16% efficiency on the low end and 18-19% on the high end, although some solar panels can reach an efficiency of over 21%.

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JA Solar's n-type module shows its power generation

From February 2023 to July 2023, we tested the power generation capacity of n-type modules and found it to be about 2.9% higher than that of the p-type modules--under theoretical analysis--mainly due to the ...

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