JinKO Solar

Tiger Pro in Experts' Sight

585W | 21.4%

Size: Bigger is better ✗

VOC: Lower is better ✗

The more module of each string, the better ✗

High module power is better ✓

High efficiency is better ✓

The cost of each component per watt in the system is lower ✓

Tiling Ribbon Technology

Eliminate cell gap

Half-Cell Technology

Reduce the electrical loses effectively

Multi Busbar

With circular ribbon

31.1KG

Less Module's Weight

-0.35%/℃

Temperature Coefficient

Up to 30 Years

linear Power Warranty

≤ 2%

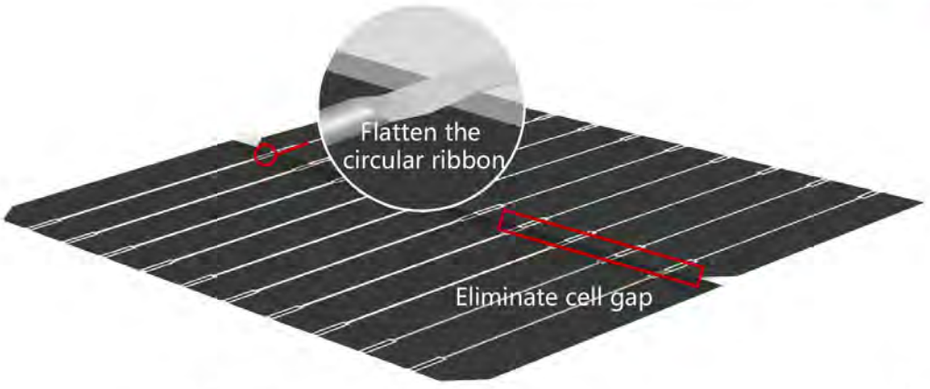
First year degradation

-0.45%

Lowest Annual degradation

Tiling Ribbon Technology

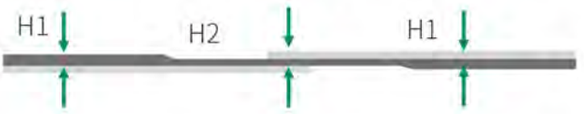
Increase module efficiency by **0.4%**



Z type structure

Flatten the circular ribbon to make it become Z type structure in the overlapping area, which makes it more convenient to connect the cells.

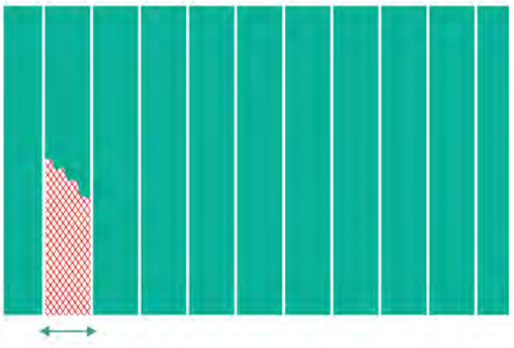
H2 = H1



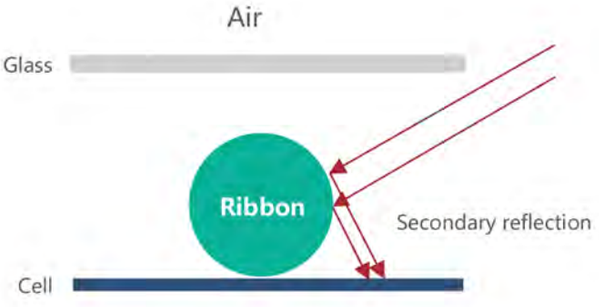
Control the thickness of the overlapping area same as conventional area to avoid micro-crack.

Multi Busbar

Tiger Pro

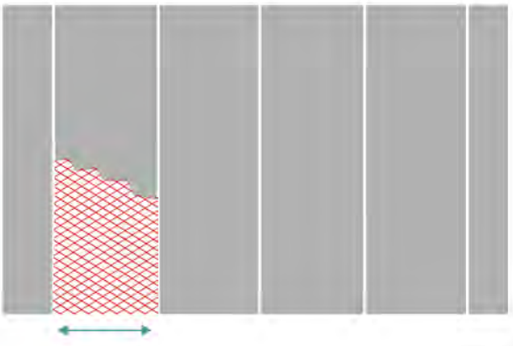


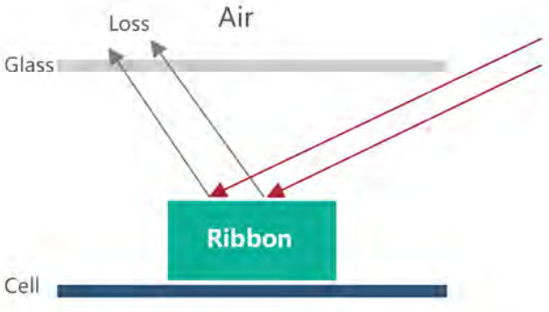
- Increase efficiency by 0.4%
- Reduce the current path by 50%
- Avoid micro-crack effectively



- Improve the utilization of light effectively
- Improve the power generation with big angle of incidence of sunlight
- Improve the power generation in low irradiance

Conventional modules



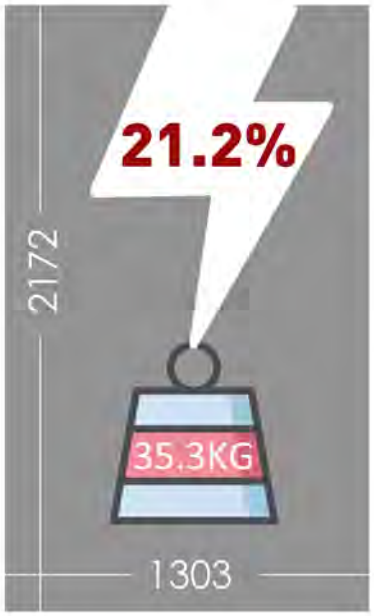


Tiger Pro can generate **1.57%** more power than 5BB modules

Comparison of Product Parameter

Tiger Pro 585W

XX-550W



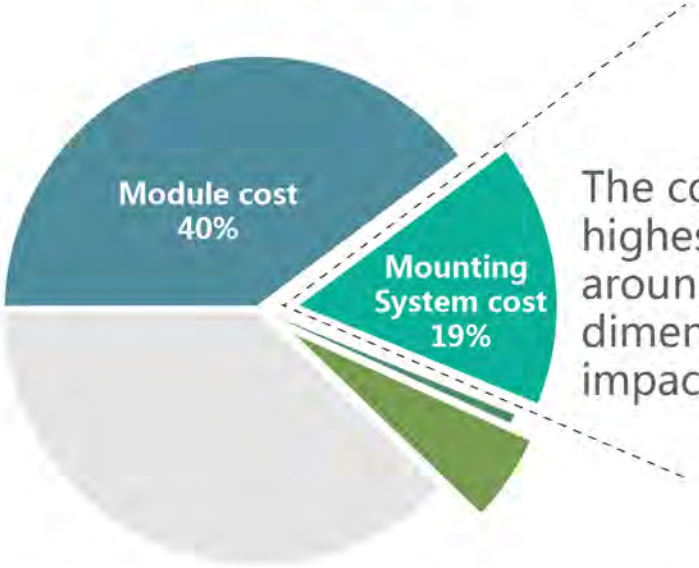
XX-600W

Module	Jinko-585	XX-550	XX-600
Length	2411	2384	2172
Width	1134	1096	1303
Efficiency	21.4%	21%	21.2%
Weight	31.1kg	32.6kg	35.3kg
Short-circuit current	**13.91A**	18.39A	18.52A
Operating current	**13.23A**	17.29A	17.44A

SUNGROW HUAWEI • • •

Tiger Pro has been matched with mainstream inverter perfectly

System Cost Analysis



The cost on mounting system is the highest within the BOS cost, which is around 19% for tracker, while modules dimension design has the largest impact on mounting system cost.

Module cost/ 40% | Other cost/ 35%

Mounting system cost / 19% | Mounting system installation cost/ 5% | Site levelling/ 1%

Module	Tiger Pro-585W	XX-550W	XX-600W
Tracker	100%	103.49%	107.37%
Mounting system installation cost (/Wp)	100%	102.82%	111.75%
Site levelling (/Wp)	100%	105.96%	105.61%
BOS(/Wp)	100%	103.25%	108.5%

Tiger Pro compare with other 600W modules,

it can save **8.5%** on the BOS cost per watt.

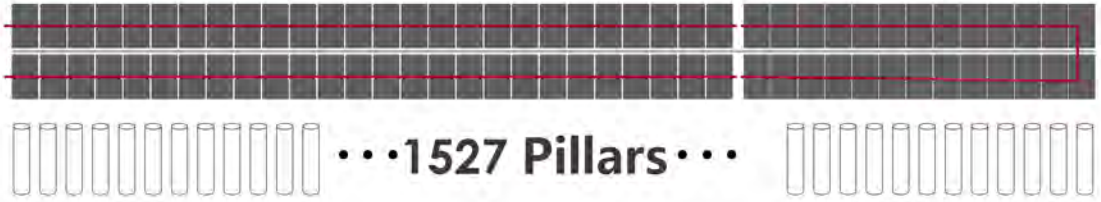
Comparison of System Design

1

Location of the project: XXX Province, China, unsubsidized project.
Project Capacity : 200MW， 6.25MW as one block 2-P fixed tilt
The length of the structure is relatively the same, and the number of strings is an integer.

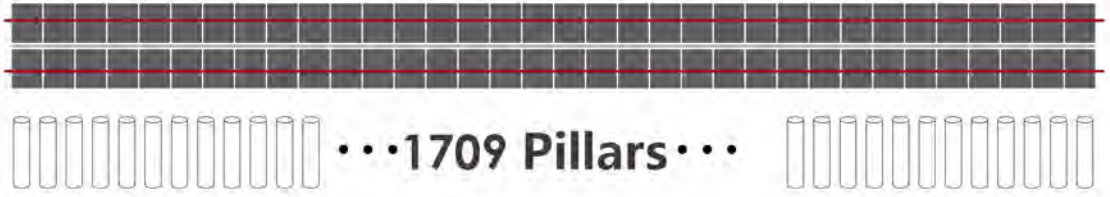
585W
Total power capacity mounting system
45630W
Number of pillar

26 pcs/String
3 Strings/fixed tilt



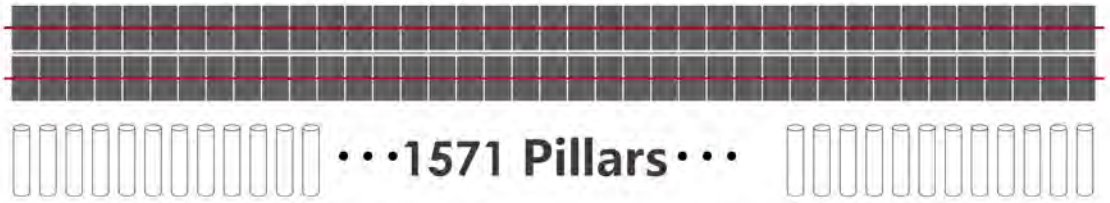
600W
Total power capacity mounting system
40800W
Number of pillar

34 pcs/String
2 Strings/fixed tilt



550W
Total power capacity mounting system
39600W
Number of pillar

36 pcs/String
2 Strings/fixed tilt



Compare with G12 modules, JinkoSolar Tiger Pro uses 2P fixed tilt,

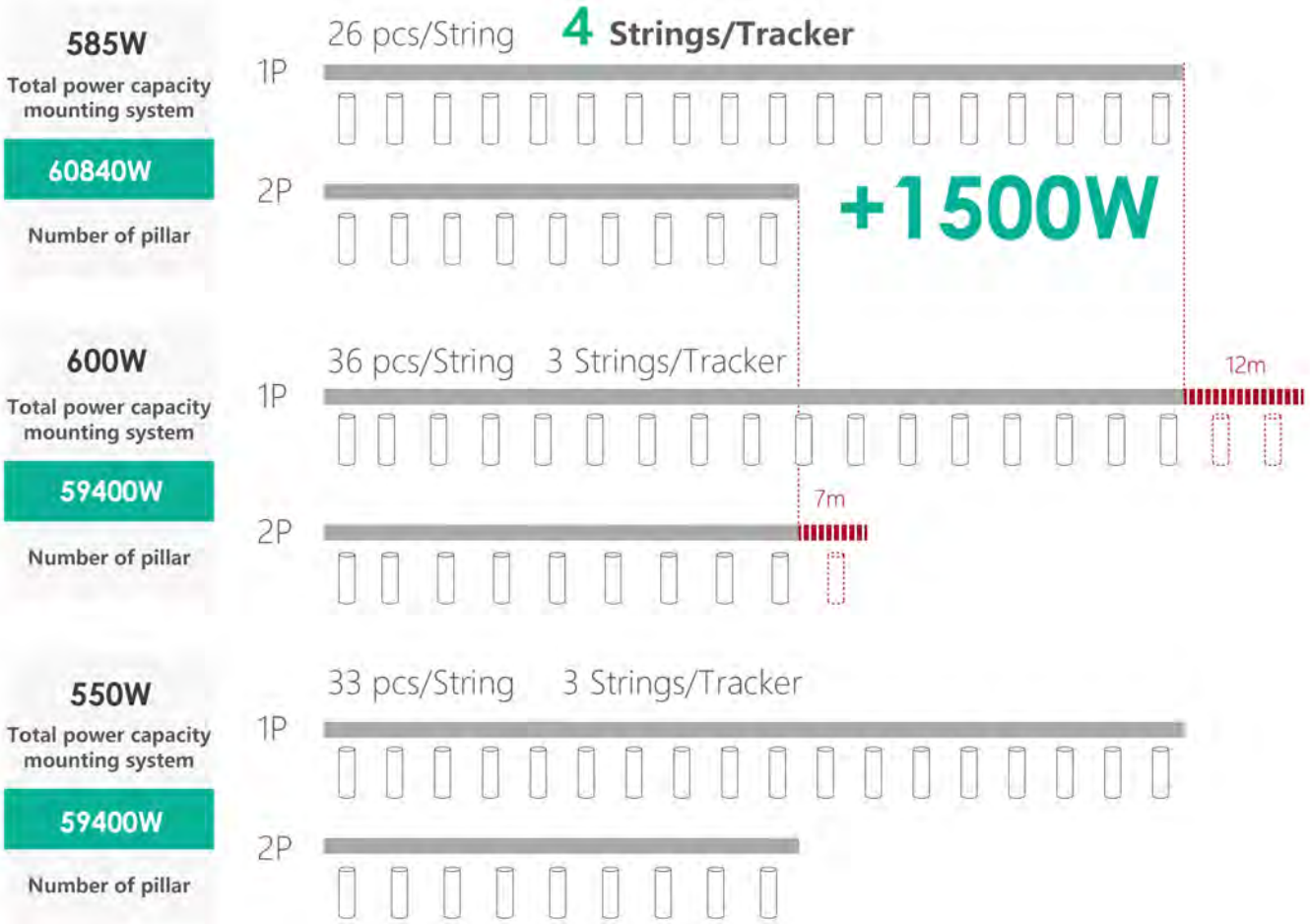
which can reduce the cost per watt by **5.2%**

2

Project Location: XXX Province, China, unsubsidized project.

Project capacity: 200MW 6.25MW as one block, Tracking tilt 1p, 2p

The length of the trackers is relatively the same. The number of strings is an integer.



Compare with M12 modules, JinkoSolar Tiger Pro modules use 1P tilt,

which can reduce the cost per watt by **7.37%**

Compare with M12 modules, JinkoSolar Tiger Pro modules use tracking 2p tilt,

which can reduce the cost per watt by **5.25%**

Arctech Solar 中信博新能源 NEXTracker ARRAY Soltec ...

Tiger Pro has been matched with mainstream inverter perfectly.

Tiger Pro Module Capacity Plan

Have already been mass production

20GW
2021

Q: There are two types of Tiger Pro Bifacial modules: transparent back sheet and dual glass. As a customer, how to choose according to the project?

The bifacial dual glass module has a higher compatibility which will be suitable for almost all kinds of projects, especially for those projects in areas with high mechanical load requirements and the ones with high humidity and temperature.

Q: The 78 cell Tiger Pro module with 182mm wafer is longer. How the length of modules is designed?

First of all, the length for 182mm 78cell module is 2411mm, and there is no problem in feasibility of the technology and manufacture.
Secondly, the advantage of 78 cell products is that it can provide higher power. 78 cell modules can lower the BOS cost and LCOE with the fixed mounting system in areas with Non-extremely high wind speed and high labour cost.

Q: Tiger Pro bifacial module is too long. For projects located in mountainous regions, if the tracker is installed with the normal ground height, considering the inclination of the mountain itself, the module may touch the ground. How to deal with that problem?

Increase the distance from lower edge of modules to the ground to ensure power generation.
Use the tracker AI algorithm to control the rotation angle, so that the rotation angle will be different and the power generation will be stabilized. It needs to be simulated and calculated according to the project circumstances.