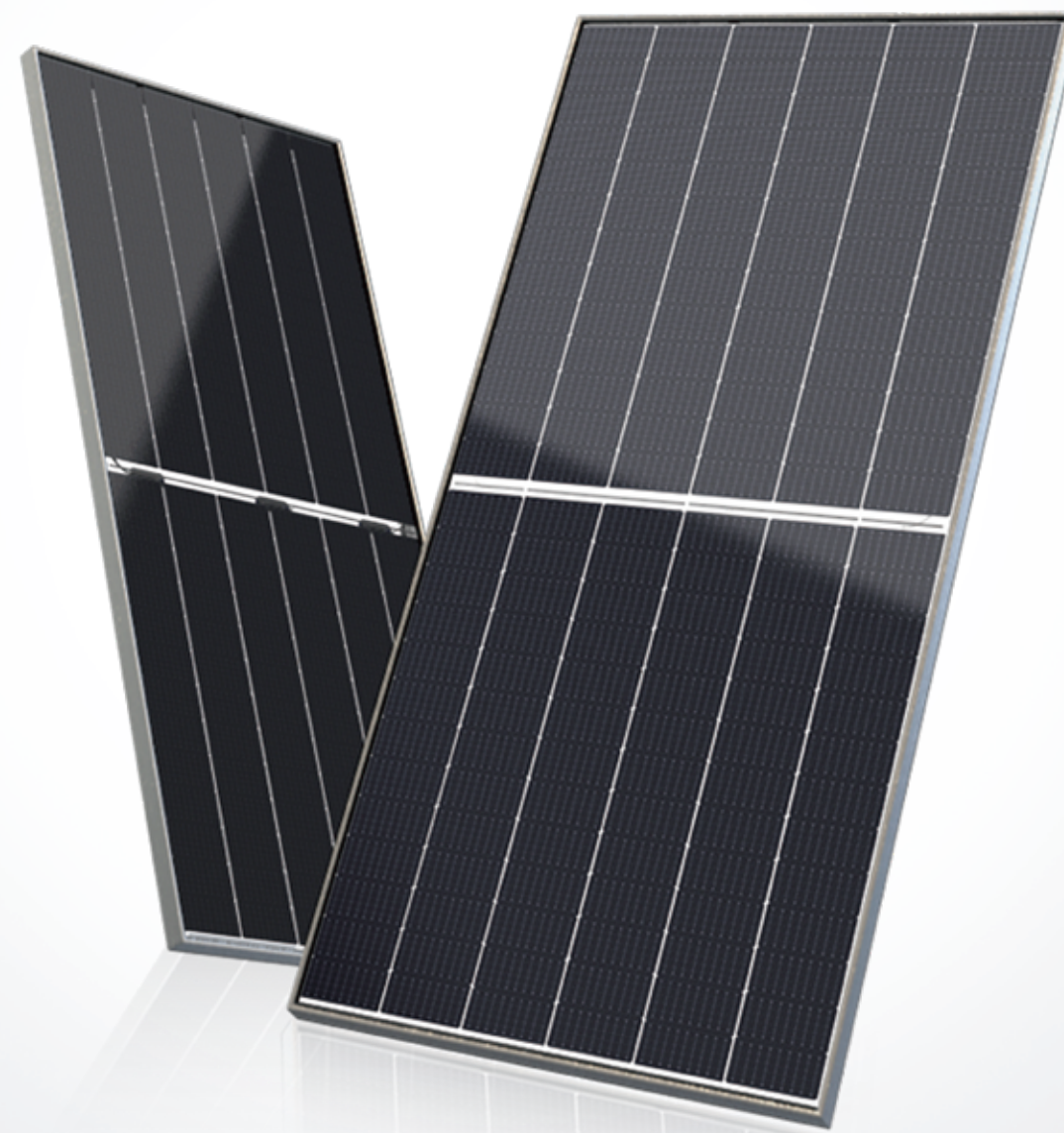


N-Type Series

High Efficiency Module





For Rooftop Market

* Nameplate power of a sample 20 panel system

8.1kW

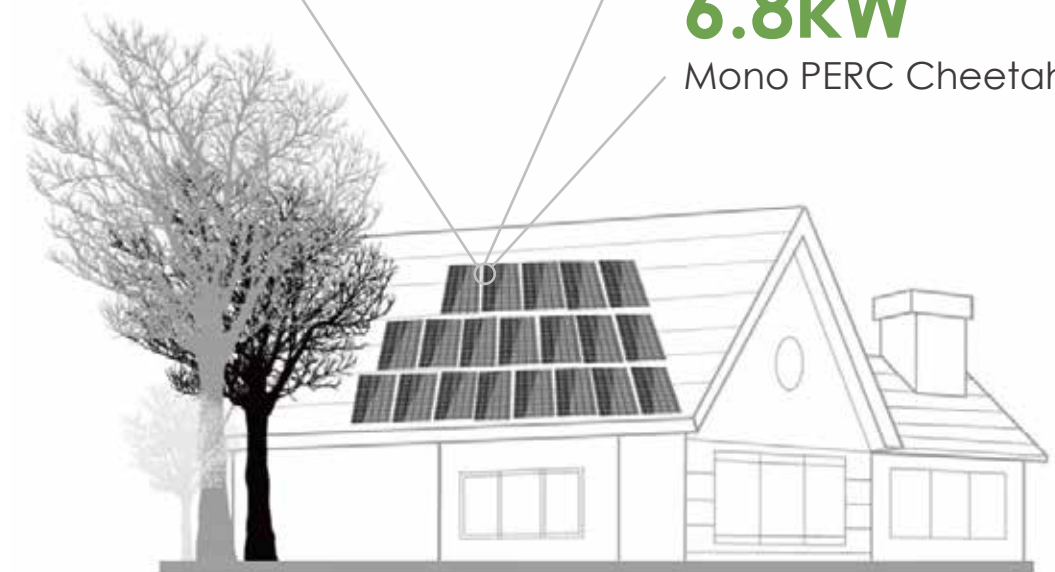
JinkoSolar N-type 405Wp

7.8kW

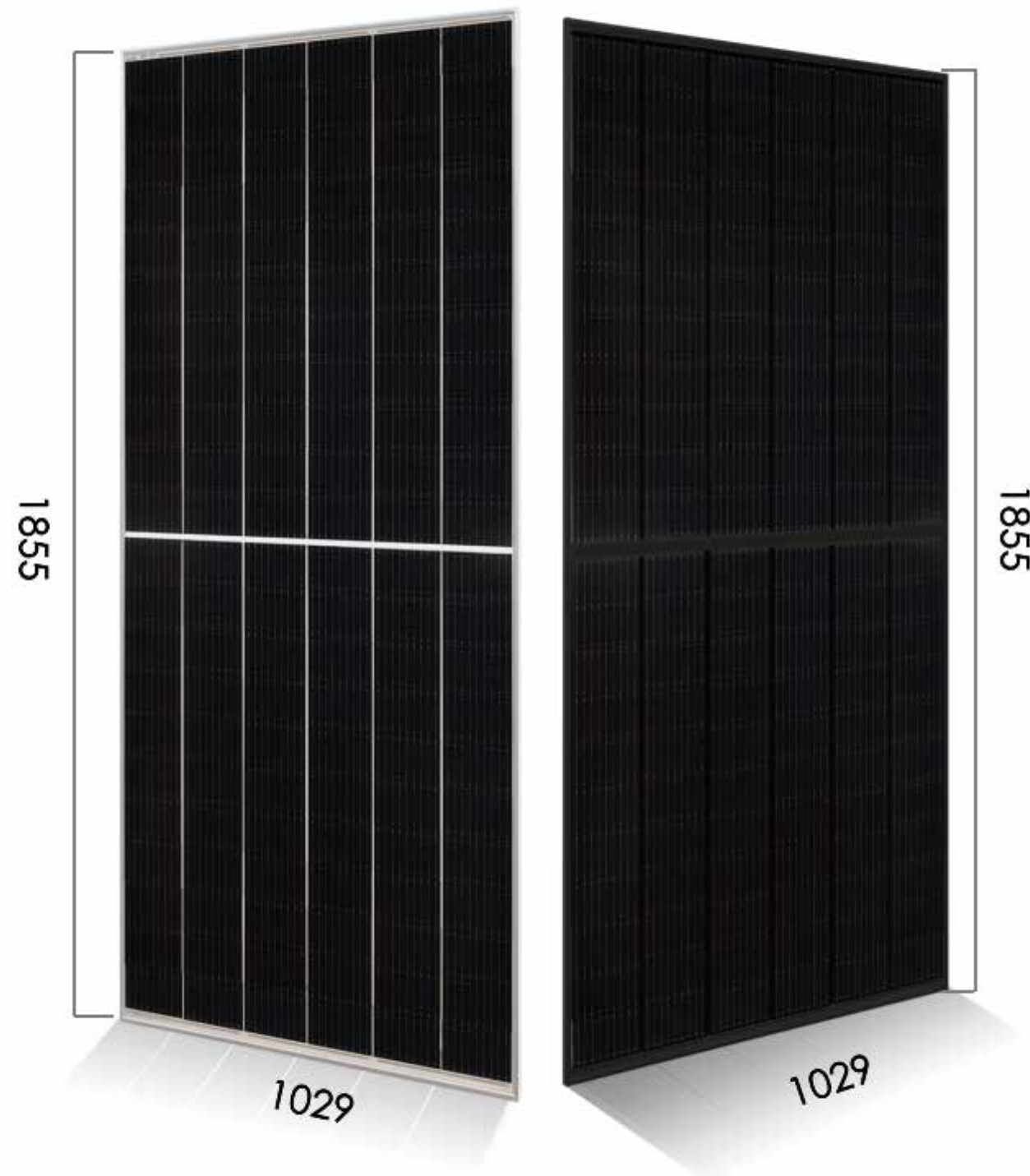
Mono PERC Tiger 390Wp

6.8kW

Mono PERC Cheetah 340Wp



The high efficiency of JinkoSolar N-type modules saves on space and labour costs, delivering class leading power whilst still allowing for the complex layouts required in rooftop projects.



Product Introduction

405 WP

Power

21.22%

Efficiency



Linear Power Warranty

1st year: 1%

2-30 years: 0.4%



Working Temp.

Lower than P-type



Better Temp. Coefficient

-0.34%



Product Warranty

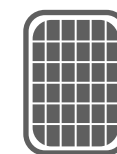
Black backsheet: 25 years

White backsheet: 15 years



Higher Module Efficiency

Up to 21.22 %



All Black appearance

N-Type Series

N-type Monofacial
66 cell

405 Wp Power

15 YEAR Product Warranty

30 YEAR Power Warranty

KEY FEATURES



TR technology + Half Cell
TR technology with Half cell aims to eliminate the cell gap to increase module efficiency (mono-facial up to 21.22%).



Reduced Light Induced Degradation
N-type cells deliver exceptional Light Induced Degradation (LID) performance when compared to more common P-type cells.



9BB instead of 5BB
9BB technology reduces the distance between busbars and finger grid lines, improving reliability and increasing output.



Higher lifetime Power Yield
1% first year degradation,
0.4% linear degradation



Class Leading Warranty
15 year product warranty,
30 year linear power warranty



Better low-light performance
Excellent performance in low-light environments
(e.g. early morning, dusk, and cloud, etc.)



Mechanical Characteristics

Cell Type	N type Mono-crystalline
No.of cells	132 (2×66)
Dimensions	1855×1029×35mm (73.03×40.51×1.37 inch)
Weight	22.1 kg (48.72 lbs)
Front Glass	3.2mm,Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP67 Rated
Output Cables	TUV 1×4.0mm ² (+): 290mm , (-): 145 mm or Customized Length

N-Type Series

N-type Monofacial All black
66 cell

395 Wp Power

25 YEAR Product Warranty

30 YEAR Power Warranty

KEY FEATURES



TR technology + Half Cell
TR technology with Half cell aims to eliminate the cell gap to increase module efficiency (mono-facial up to 20.69%).



Low Light Induced Degradation
N-type cells deliver exceptional Light Induced Degradation (LID) performance when compared to more common P-type cells.



9BB instead of 5BB
9BB technology reduces the distance between busbars and finger grid lines, improving reliability and increasing output.



Higher lifetime Power Yield
1% first year degradation,
0.4% linear degradation



Class Leading Warranty
25 year product warranty,
30 year linear power warranty



Better low-light performance
Excellent performance in low-light environments
(e.g. early morning, dusk, and cloud, etc.)



Mechanical Characteristics

Cell Type	N type Mono-crystalline
No.of cells	132 (2×66)
Dimensions	1855×1029×35mm (73.03×40.51×1.37 inch)
Weight	22.1 kg (48.72 lbs)
Front Glass	3.2mm,Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP67 Rated
Output Cables	TUV 1×4.0mm ² (+): 290mm , (-): 145 mm or Customized Length

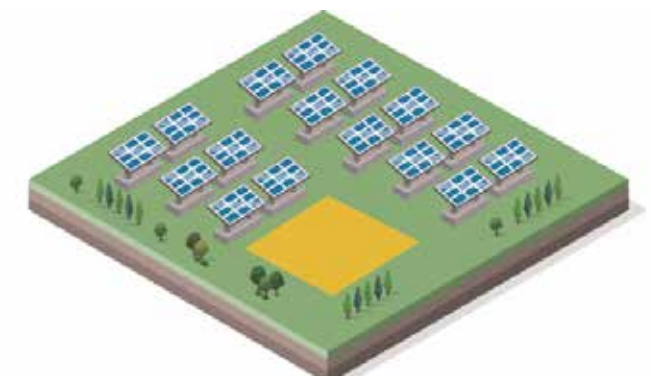


For Utility Market

*Example : Australia - 164MW Project



P-type 455W
20.00%

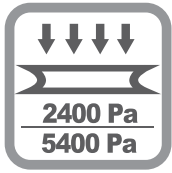
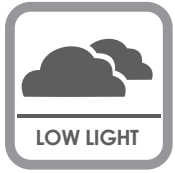
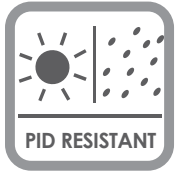
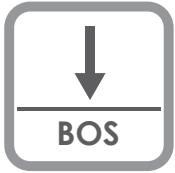
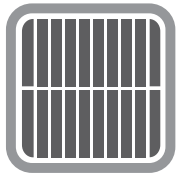
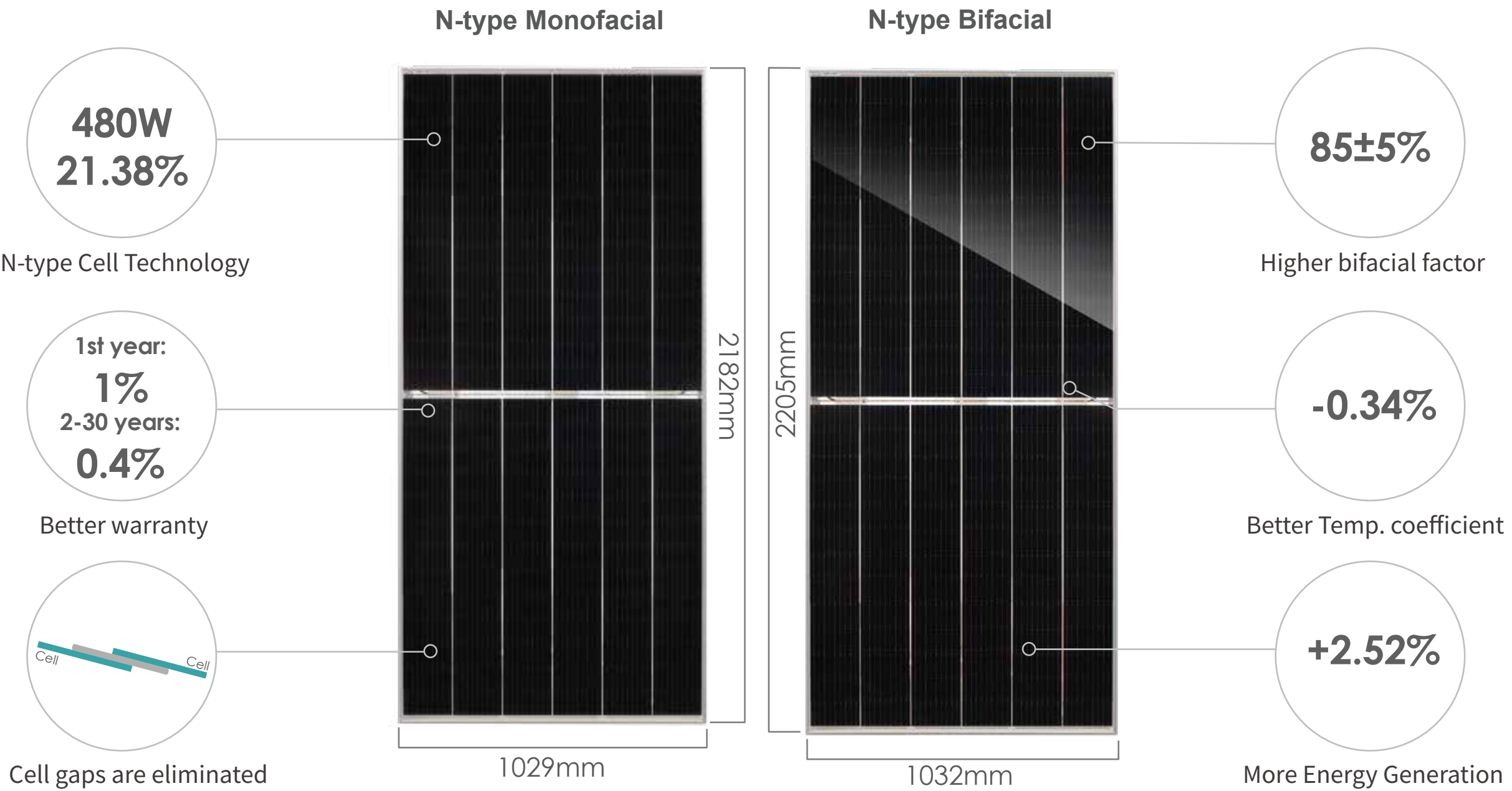


N-type 475W
20.87%

LCOE Analysis		
Module	P-type Module-455W	N-type Module-475W
1 st Degradation	2.5%	1%
Linear Degradation	0.55%	0.4%
Bifacial Energy gain	9%	10.9%
1st Year Generation	392783(MWh)	406483(MWh)
Result		
LCOE(US cents/kWh)	2.42	2.27
IRR	12.34%	13.19%

Compared with 455Wp P-type modules, using JinkoSolar 475Wp N-type modules provides your project with a lower LCOE and a higher IRR. The result of heavy investment in R&D, such as new cell technologies and innovative cell doping to improve longevity, JinkoSolar N-type series is the panel of the future.

Product Introduction



N-Type Series







N-type Monofacial
78 cell

480 Wp Power

15 YEAR Product Warranty

30 YEAR Power Warranty

KEY FEATURES

- **TR technology + Half Cell**
TR technology with Half cell aims to eliminate the cell gap to increase module efficiency (mono-facial up to 21.38%)
- **Reduced Light Induced Degradation**
N-type cells deliver exceptional Light Induced Degradation (LID) performance when compared to more common P-type cells.
- **9BB instead of 5BB**
9BB technology reduces the distance between busbars and finger grid lines, improving reliability and increasing output.
- **Higher lifetime Power Yield**
1% first year degradation,
0.4% linear degradation
- **Class Leading Warranty**
15 year product warranty,
30 year linear power warranty
- **Better low-light performance**
Excellent performance in low-light environments (e.g. early morning, dusk, and cloud, etc.)



Mechanical Characteristics

Cell Type	N type Mono-crystalline
No.of cells	156 (2×78)
Dimensions	2182×1029×40mm (85.91×40.51×1.57 inch)
Weight	26.1 kg (57.54 lbs)
Front Glass	3.2mm,Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP67 Rated
Output Cables	TUV 1×4.0mm² (+): 290mm , (-): 145 mm or Customized Length

N-Type Series

N-type Bifacial
78 cell

475 Wp Power

15 YEAR Product Warranty

30 YEAR Power Warranty

KEY FEATURES

- **TR technology + Half Cell**
TR technology with Half cell aims to eliminate the cell gap to increase module efficiency (mono-facial up to 20.87%)
- **Reduced Light Induced Degradation**
N-type cells deliver exceptional Light Induced Degradation (LID) performance when compared to more common P-type cells.
- **9BB instead of 5BB**
9BB technology reduces the distance between busbars and finger grid lines, improving reliability and increasing output.
- **Higher lifetime Power Yield**
1% first year degradation,
0.4% linear degradation
- **Class Leading Warranty**
15 year product warranty,
30 year linear power warranty
- **Better low-light performance**
Excellent performance in low-light environments (e.g. early morning, dusk, and cloud, etc.)



Mechanical Characteristics

Cell Type	N type Mono-crystalline
No.of cells	156 (2×78)
Dimensions	2205×1032×40mm (86.81×40.63×1.57 inch)
Weight	26.5 kg (58.42 lbs)
Front Glass	3.2mm,Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP67 Rated
Output Cables	TUV 1×4.0mm² (+): 250mm , (-): 150 mm or Customized Length

N-Type Technology

Linear performance Warranty

15-year

Product Warranty

30-year

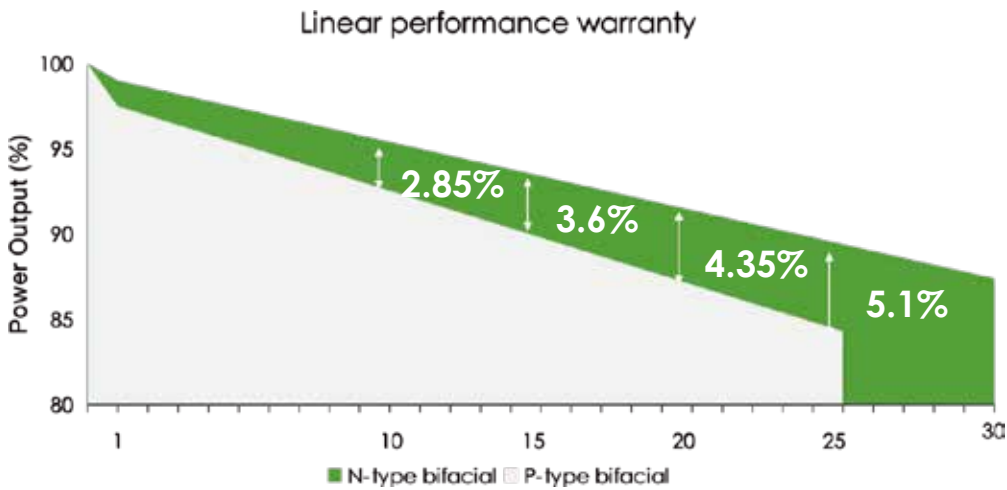
Warranty for Extra Linear Power Output

-1.00%

1st-year Degradation

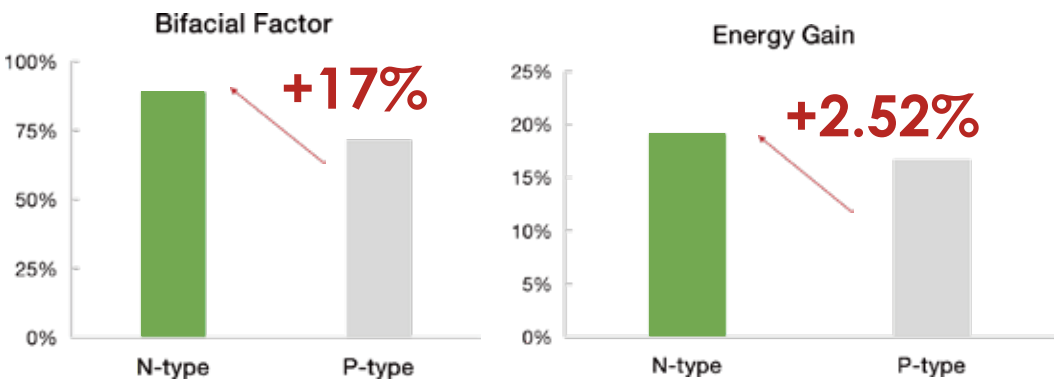
-0.4%

Annual Degradation



Better Bi-facial Factor

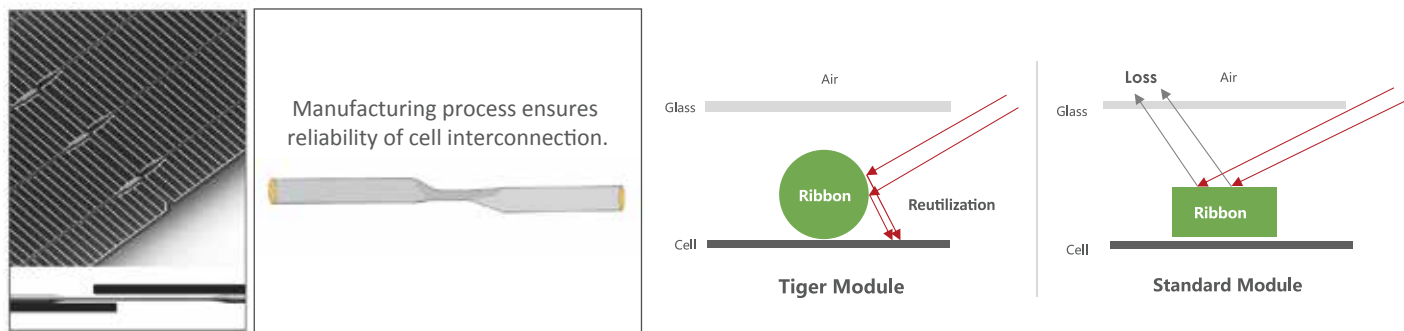
N-type bifacial generates **2.52%** more energy than p-type bifacial mainly because of a higher bifacial factor (89% vs 72%).



Tiling Ribbon (TR) Technology

Inter-cell connection ribbons are more flexible, and as a result of a unique stamping process, excellent reliability is achieved.

Tiger series uses circular buswire technology, which has been developed by Jinko R&D, to enhance the absorption of reflected light and increase energy generation.



Lower Operating Temperature

Although P-type bifacial panels already show some operational temperature benefits compared to standard P-type monofacial options, the N-type bifacial delivers even lower operational temperatures. This provides an incremental benefit to reliability and increases the operational voltage, enhancing output.

