

# Product Catalogue 2022

*Building **Your Trust** in Solar*

[www.jinkosolar.com](http://www.jinkosolar.com)

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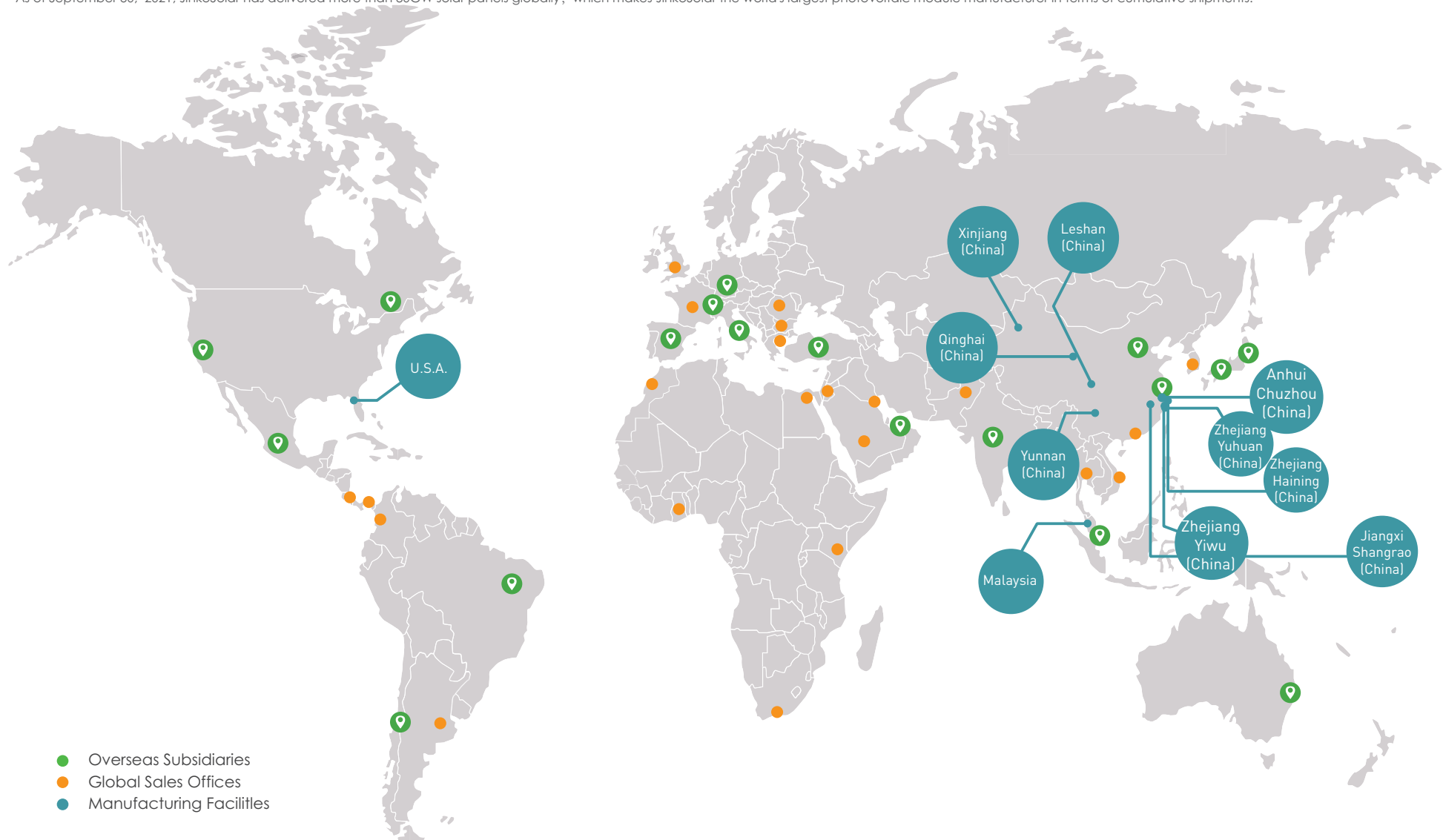
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# World's No.1 Shipment for 4 Consecutive Years

JinkoSolar (NYSE: JKS) is one of the largest and most innovative solar module manufacturers in the world. JinkoSolar distributes its solar products and sells its solutions and services to a diversified international utility, commercial and residential customer base in China, the United States, Japan, Germany, the United Kingdom, Chile, South Africa, India, Mexico, Brazil, the United Arab Emirates, Italy, Spain, France, Belgium, and other countries and regions. JinkoSolar has built a vertically integrated solar product value chain, with an integrated annual capacity of 31 GW for mono wafers, 19 GW for solar cells, and 36 GW for solar modules, as of September 30, 2021.

As of September 30, 2021, JinkoSolar has delivered more than 80GW solar panels globally, which makes JinkoSolar the world's largest photovoltaic module manufacturer in terms of cumulative shipments.





## R&D By the Numbers

Despite the increasingly complex and difficult challenge to continue achieving Moore's Law, which calls for a 10 watt output enhancement every half year, JinkoSolar has invested the necessary resources in R&D to achieve first-to-market leading technologies, which give customers the edge needed to build successful projects.



**1632**

Patent Applications



**722**

Invention Patents



**968**

Authorized Patents



**900+**

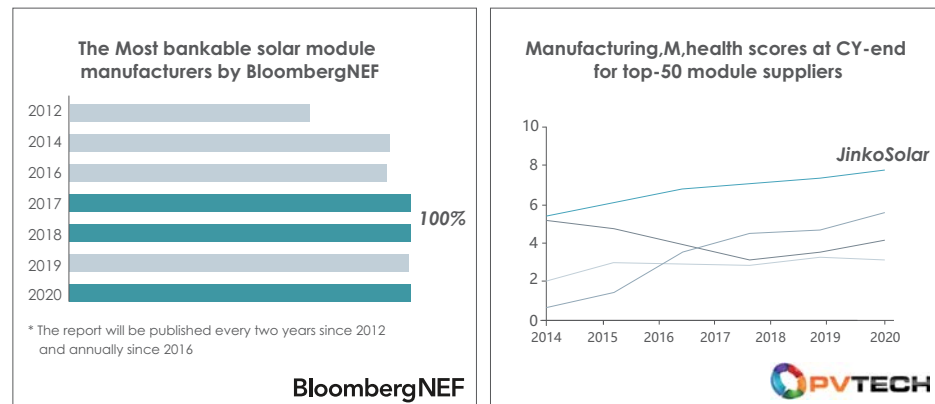
R&D Team



**12.74** Billion RMB R&D Expenditure

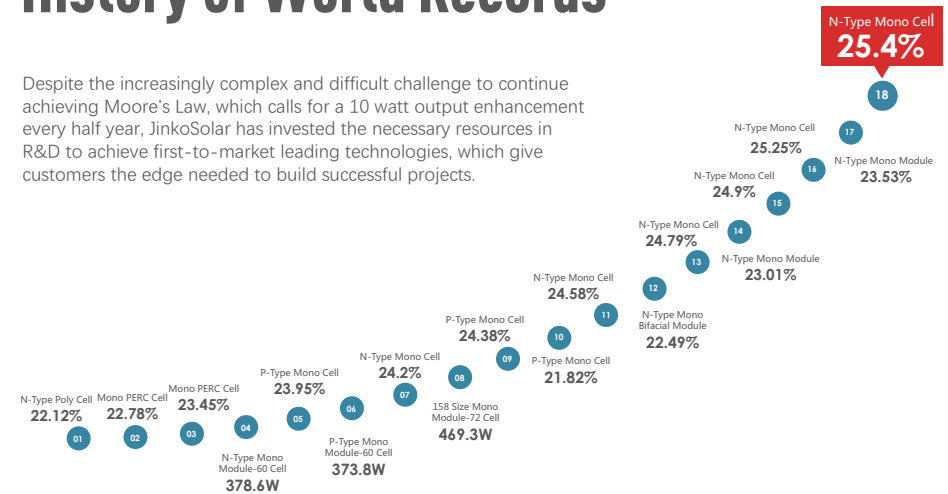
## Long History of Bankability

Ranked as Top Solar Brand used in Debt Financed Projects and Most "Bankable" PV Manufacturer by Bloomberg New Energy Finance. 100% of the BNEF survey respondents considered JinkoSolar as highly bankable.



## History of World Records

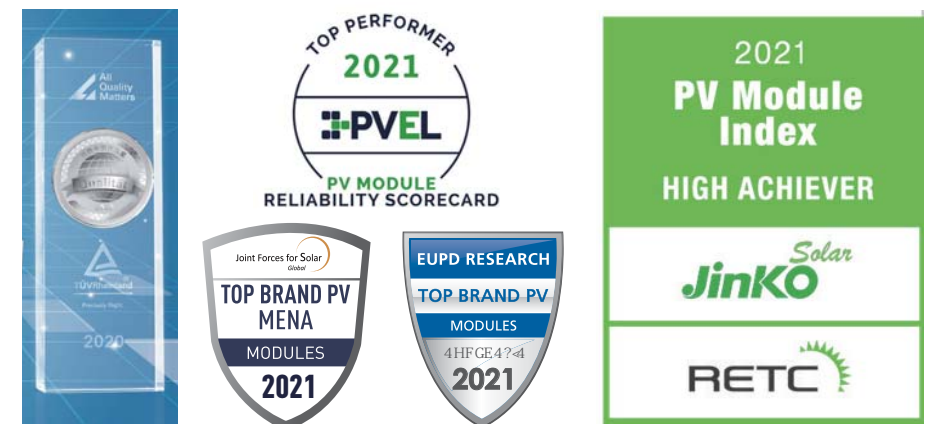
Despite the increasingly complex and difficult challenge to continue achieving Moore's Law, which calls for a 10 watt output enhancement every half year, JinkoSolar has invested the necessary resources in R&D to achieve first-to-market leading technologies, which give customers the edge needed to build successful projects.



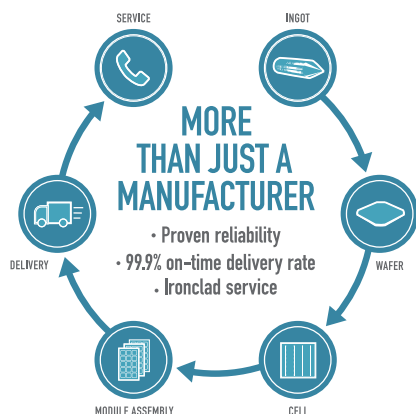
## Robust Quality Certified

In 2021, JinkoSolar again ranks as a "Top Performer" in the DNV-GL PV Module Reliability Scorecard, for seventh consecutive year. The Company has also won the All Quality Matters Award from TÜV Rheinland for the fifth time, ranking first in testing conducted for the mono group.

Jinko has been awarded with the "Top Brand PV Europe Seal 2020" by EuPD Research for the second time in two consecutive years. EuPD Research awards Top PV seals based on its Global PV Installer Monitor Survey which compiles the opinions of solar installers from leading solar markets. In addition, JinkoSolar was also awarded 'Top Brand PV Australia Seal 2020' for the third consecutive year and in MENA region.



# The Efficient and Resilient Supply Chain



JinkoSolar's flexibility in assuring sufficient supply for a diverse customer base, delivering on-time, providing in-house technical service, customizing its product to optimize customers' investment performance ratio, and making manufacturing excellence are JinkoSolar's core values.

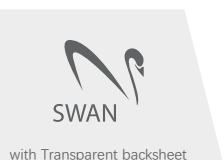
# Technology Innovation



JinkoSolar's has been globally recognized as a global module manufacturer and technology leader. In 2019 JinkoSolar won the Intersolar Award 2019 in the Photovoltaics category for its bifacial module with transparent backsheet from DuPont.

In 2020, JinkoSolar was qualified as a Finalist of the Intersolar Award with its Tiger N-type module. The Intersolar Award is presented annually to companies making a substantial contribution to the success of the industry, honoring technological innovations and groundbreaking solutions using photovoltaic-related technologies.

In 2020, JinkoSolar was awarded with pv magazine Award in Module Category for Tiger 475Wp.



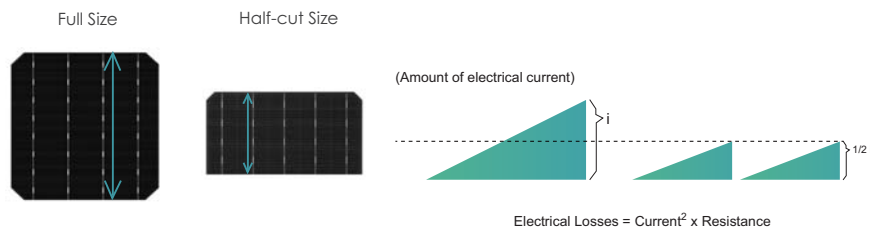
- HALF-CELL (HC) TECHNOLOGY
- MULTI-BUSBAR TECHNOLOGY
- BIFACIAL TECHNOLOGY
- TILING RIBBON TECHNOLOGY
- N-TYPE TECHNOLOGY

# TECHNOLOGY

# Half-Cell (HC) Technology

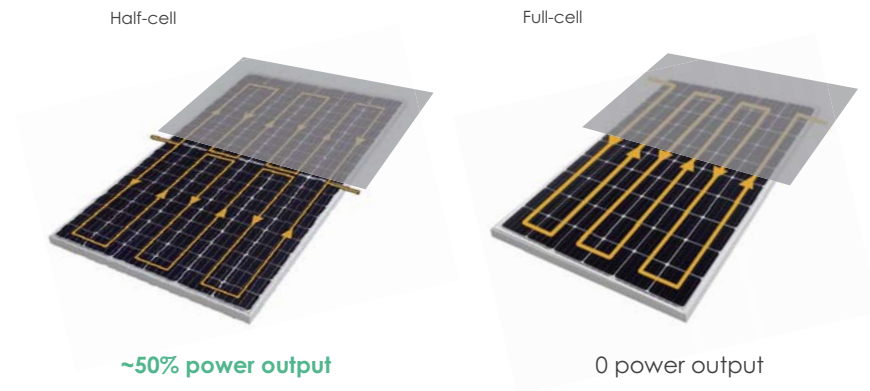
## Lower Energy Losses

By using half-cells, the electrical current (i) flowing in each busbar is halved. Therefore, the amount of internal losses in a half-cut module is 1/4 of a full-sized cell module.



## Lower Shading Loss

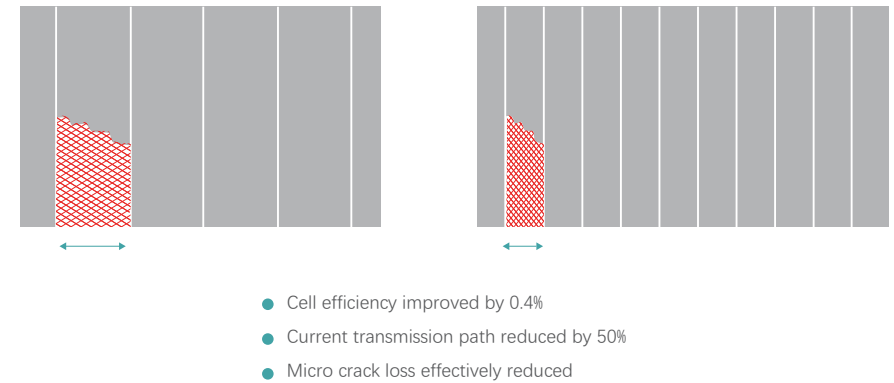
Shading loss of half-cell is improved compared to a regular module in specific shading conditions.



# Multi-Busbar Technology

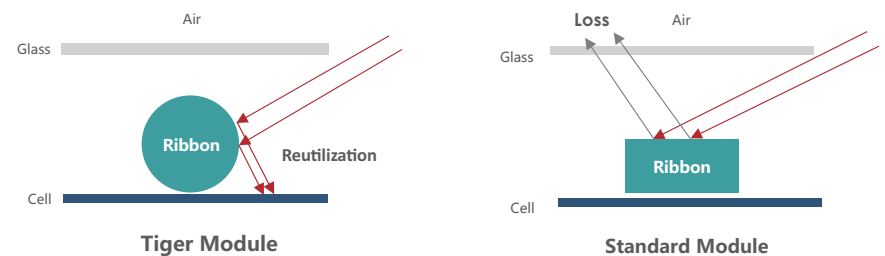
## Lower Microcrack Loss

Compared with traditional 5BB modules, current transmission distance is 50% lower, which decreases the resistance and current loss.



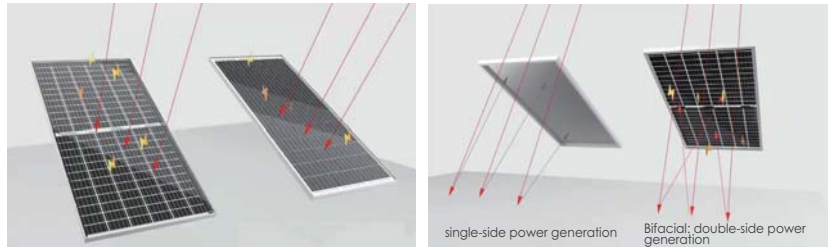
## Circular Ribbon Brings More Energy

Comparing with 5BB, Jinko modules use circular ribbon which is developed by Jinko R&D independently to achieve the reutilization of light absorption and increase energy generation.



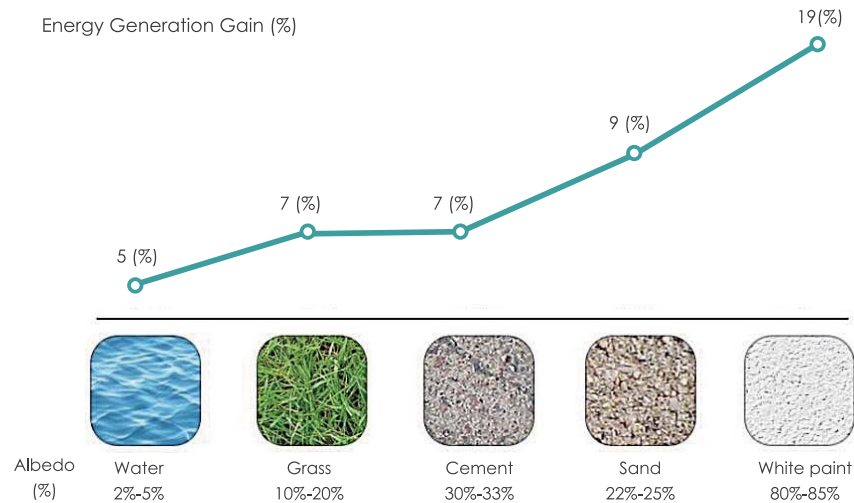
# Bifacial Technology

## Maximized Energy Generation

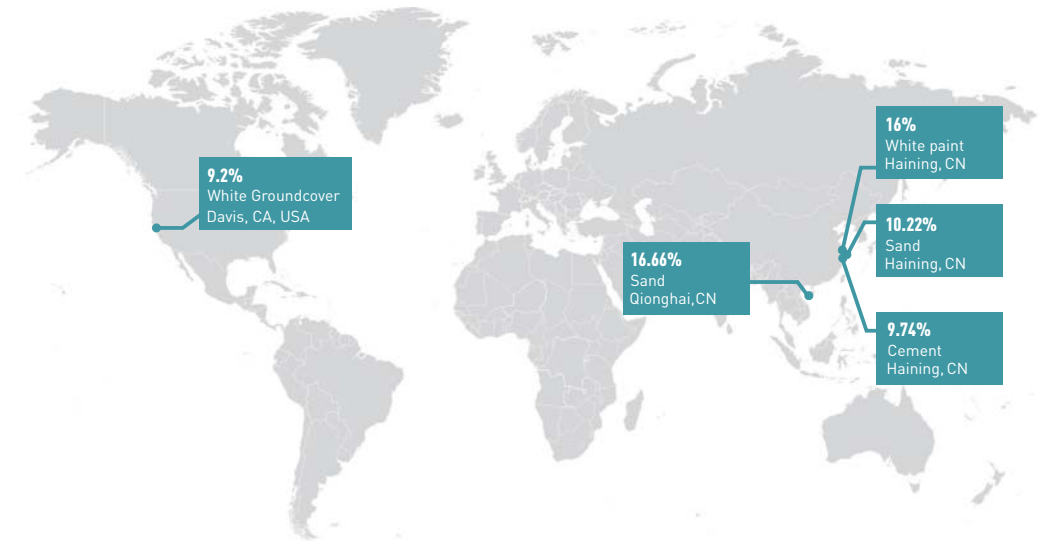


Up to 25% power gain depending on albedo and PV system design

## Real Energy Generation Gain



# Bifacial Case Study

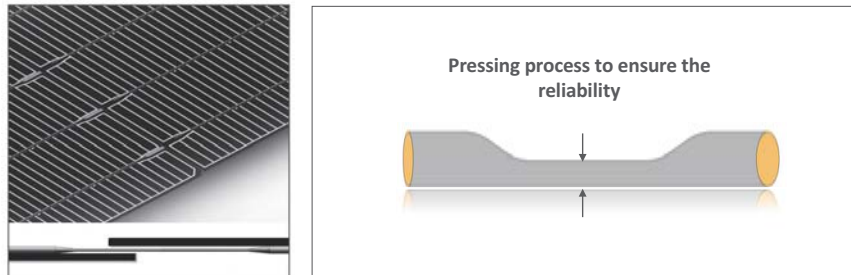


Location	Test Performer	Types of Ground	Type of Installation	Module Type	Test Type	Test Duration	Bifacial Gain
Haining, Zhejiang province, CN	Chinese Academy of Sciences	White paint	Fixed (Module elevation: 1.2m, Tilt: 30°)	Bifacial with dual glass Monofacial with dual glass	Module level	2018.5.23 - 2019.1.17	16%
Haining, Zhejiang province, CN	Chinese Academy of Sciences	Sand	Fixed (Module elevation: 1.2m, Tilt: 30°)	Swan bifacial with transparent backsheet Cheetah Monofacial Module	Module level	2019.2.1 - present	10.22%
Haining, Zhejiang province, CN	Chinese Academy of Sciences	Cement	Fixed (Module elevation: 0.7m, Tilt: 30°)	Swan bifacial with transparent backsheet Cheetah Monofacial Module	String level	2019.8.2 - present	9.74%
Qionghai, Haining province, CN	China Quality Certification centre (CQC)	Sand	Tracking (Module elevation: 2.7m, 2P tracker)	Swan bifacial with transparent backsheet Cheetah Monofacial Module	String level	2019.10.23 - present	16.66%
Davis, CA, USA	PVEL	White Groundcover (albedo 47%)	Tracking (Module elevation: 1.5m, 1P tracker)	Swan bifacial with transparent backsheet Cheetah Monofacial Module	String level	2019.10.18 - present	9.2%

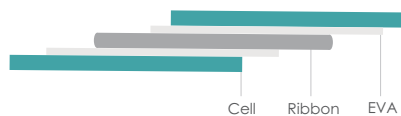
# Tiling Ribbon Technology

## Pressing Process to Ensure the Reliability

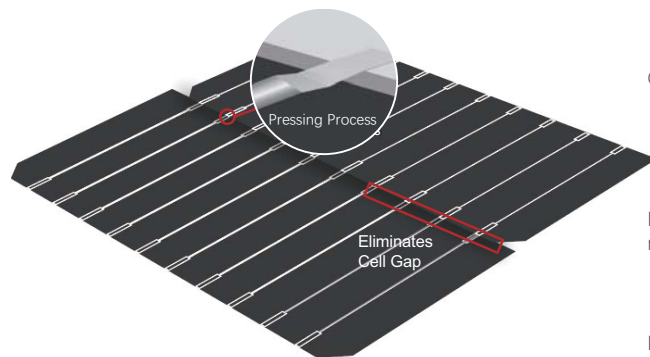
Comparing with 5BB modules, Jinko circular ribbon has better suppleness, after the pressing process, it performs excellent reliability.



### Structure diagram of overlapping area



According to the experiment, specially made EVA/POE will fill the overlapping region that gives excellent buffering effect to ensure the reliability.



Cell Gap **-0.3-0.5mm**

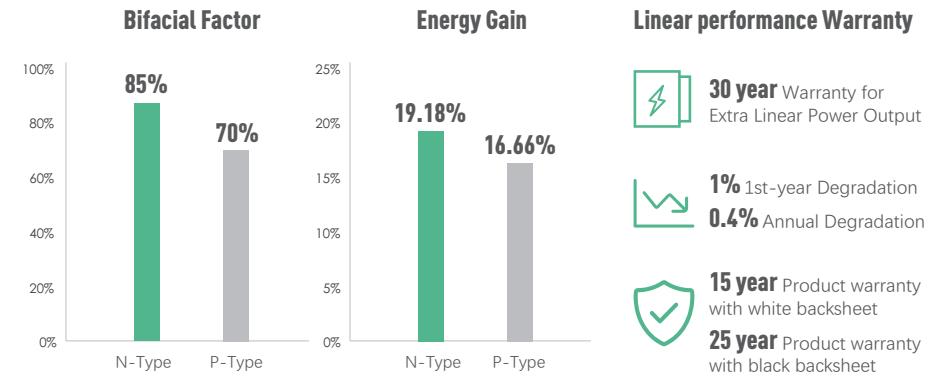
Increased module efficiency **0.4%**

Increased energy production **1.57%**

# N-type Technology

Compared with P-type products, N-type cells applied with different doping technology perform better in power degradation. The significant increase of bi-facial factor and the optimization of operating temperature also bring higher power gain. When it comes to the LCOE value, the analysis result has been markedly reduced compared with traditional P-type modules.

Higher bifacial factor = Higher energy generation compared with Ptype



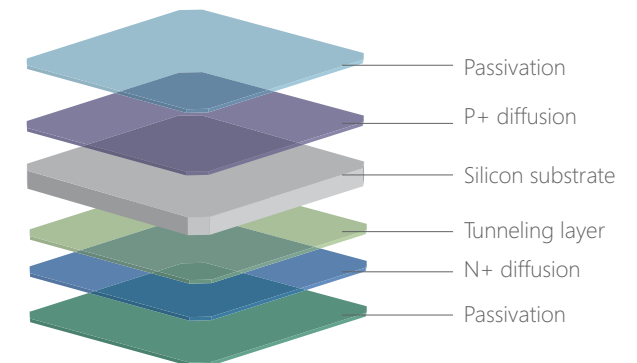
\*Module level field test results, sand ground, 2P tracker, Hainan province, China

## HOT 2.0 Technology

The efficient passivation contact technology is applied in HOT 2.0 cells, which updates the Micro-nano tunneling through the oxide layer and carrier selective lamination of microcrystalline silicon thin films on the rear side. This advanced structure contributes to better passivation performance and electrical conductivity, increasing the cell efficiency and power generation performance. Under the mass production condition, the N-type HOT2.0 cell's maximum efficiency is close to 25% and has a broad application prospect in the near future.

**25.4%**  
Cell efi. world record

**24.15%**  
Mass production Cell efi.





**Designed for**

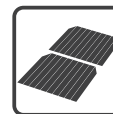
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commercial	<input checked="" type="checkbox"/>
Utility	<input checked="" type="checkbox"/>

## IEC61215(2016), IEC61730(2016)

ISO9001:2015: Quality Management System

ISO14001:2015: Environment Management System

ISO45001:2018: Occupational health and safety management systems



Multi Busbar



### PID Resistance



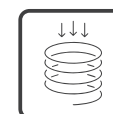
Higher Lifetime Power Yield



### Saving BOS Cost



Higher power output



## Severe Weather Resilience



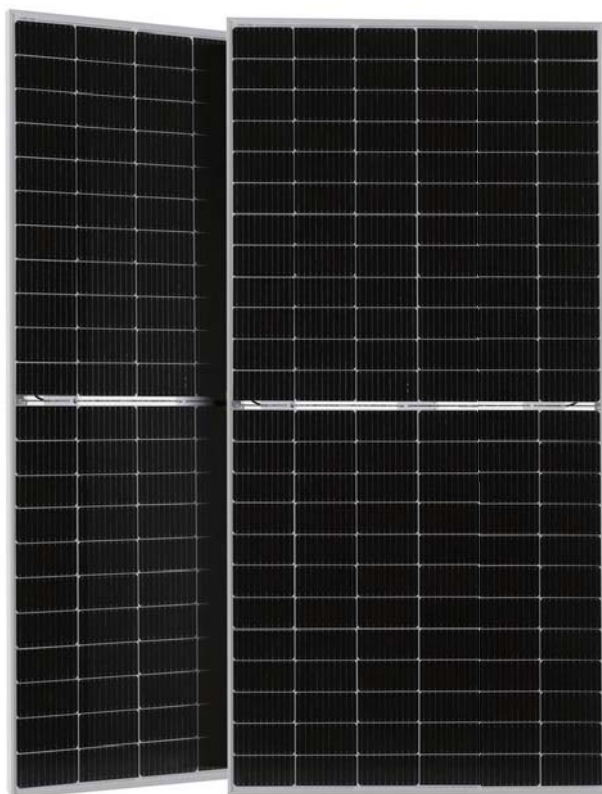
### Low-light Performance



### Durability Against Extreme Environmental Conditions



High Efficiency



Product	# of cells	Size/Weight
TR JKM390-410M-6RL3-(V)	132 cells (2×66)	1855×1029×30mm / 20.8kg
TR JKM460-480M-7RL3-(V)	156 cells (2×78)	2182×1029×35mm / 25.0kg
JKM360-380N-6TL3-(V)	120 cells (6×20)	1692×1029×30mm / 19.0kg
JKM400-420N-6RL3-(V)	132 cells (2×66)	1855×1029×30mm / 20.8kg

# Tiger 66TR

## 390-410 Watt

### MONO-FACIAL MODULE

#### P-Type

Positive power tolerance of 0~+3%

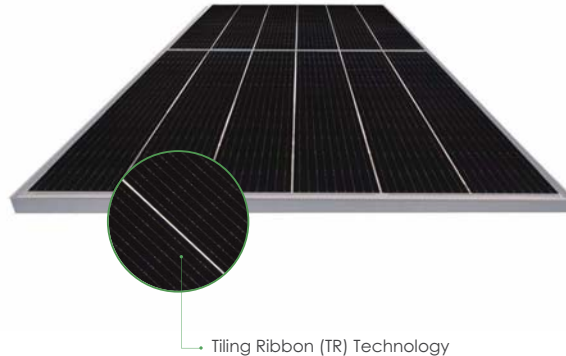
IEC 61215(2016), IEC 61730(2016)

ISO 9001:2015: Quality Management System

ISO 14001:2015: Environment Management System

ISO 45001:2018

Occupational health and safety management systems



Tiling Ribbon (TR) Technology

## 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 21.48%)



#### 9BB instead of 5BB

9BB technology decreases the distance between bus bars and finger grid line which is benefit to power increase.



#### Higher lifetime Power Yield

2% first year degradation,  
0.55% linear degradation



#### Best Warranty

12 year product warranty,  
25 year linear power warranty



#### Enhanced Mechanical Load

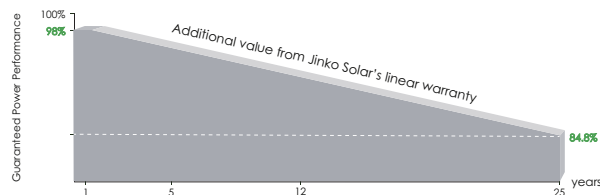
Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).



#### Avoid debris, cracks and broken gate risk effectively

9BB technology using circular ribbon that could avoid debris, cracks and broken gate risk effectively

## LINEAR PERFORMANCE WARRANTY

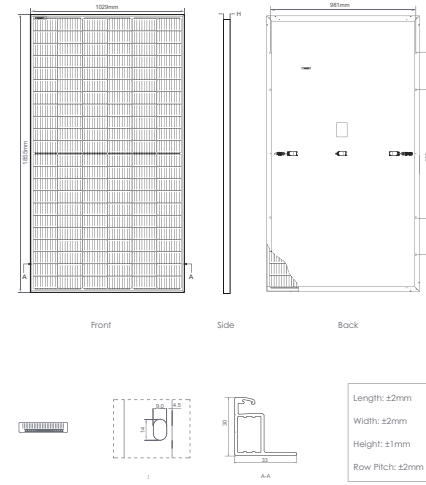


12 Year Product Warranty

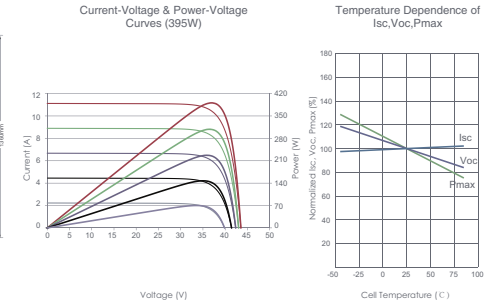
25 Year Linear Power Warranty

0.55% Annual Degradation Over 25 years

## Engineering Drawings



## Electrical Performance & Temperature Dependence



## Mechanical Characteristics

Cell Type	P type Mono-crystalline
No. of cells	132 (2×66)
Dimensions	1855×1029×30mm (73.03×40.51×1.18 inch)
Weight	20.8kg (45.86 lbs)
Front Glass	3.2mm, Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Output Cables	TUV 1×4.0mm (+): 290mm, (-): 145mm or Customized Length

## Packaging Configuration

(Two pallets = One stack)

36pcs/pallets, 72pcs/stack, 864pcs/ 40'HQ Container

## SPECIFICATIONS

Module Type	JKM390M-6RL3 JKM390M-6RL3-V		JKM395M-6RL3 JKM395M-6RL3-V		JKM400M-6RL3 JKM400M-6RL3-V		JKM405M-6RL3 JKM405M-6RL3-V		JKM410M-6RL3	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	390Wp	290Wp	395Wp	294Wp	400Wp	298Wp	405Wp	301Wp	410Wp	305Wp
Maximum Power Voltage (Vmp)	36.49V	33.66V	36.58V	33.82V	36.67V	33.86V	36.76V	33.97V	36.84V	34.04V
Maximum Power Current (Imp)	10.69A	8.62A	10.80A	8.69A	10.91A	8.79A	11.02A	8.87A	11.13A	8.96A
Open-circuit Voltage (Voc)	43.75V	41.29V	43.93V	41.47V	44.12V	41.64V	44.20V	41.72V	44.29V	41.80V
Short-circuit Current (Isc)	11.39A	9.20A	11.48A	9.27A	11.57A	9.34A	11.68A	9.43A	11.79A	9.52A
Module Efficiency STC (%)	20.43%		20.69%		20.96%		21.22%		21.48%	
Operating Temperature (°C)	-40 °C ~+85 °C									
Maximum System Voltage	1000/1500VDC (IEC)									
Maximum Series Fuse Rating	20A									
Power Tolerance	0~+3%									
Temperature Coefficients of Pmax	-0.35%/ °C									
Temperature Coefficients of Voc	-0.28%/ °C									
Temperature Coefficients of Isc	0.048%/ °C									
Nominal Operating Cell Temperature (NOCT)	45±2 °C									

\*STC: ☀ Irradiance 1000W/m<sup>2</sup> 📏 Cell Temperature 25°C ☁ AM=1.5  
 NOCT: ☀ Irradiance 800W/m<sup>2</sup> 📏 Ambient Temperature 20°C ☁ AM=1.5 🌀 Wind Speed 1m/s

# Tiger 78TR

## 460-480 Watt

### MONO-FACIAL MODULE

#### P-Type

Positive power tolerance of 0~+3%

IEC 61215(2016), IEC 61730(2016)

ISO 9001:2015: Quality Management System

ISO 14001:2015: Environment Management System

ISO 45001:2018

Occupational health and safety management systems



## 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%)



#### 9BB instead of 5BB

9BB technology decreases the distance between bus bars and finger grid line which is benefit to power increase.



#### Higher lifetime Power Yield

2% first year degradation,  
0.55% linear degradation



#### Best Warranty

12 year product warranty,  
25 year linear power warranty



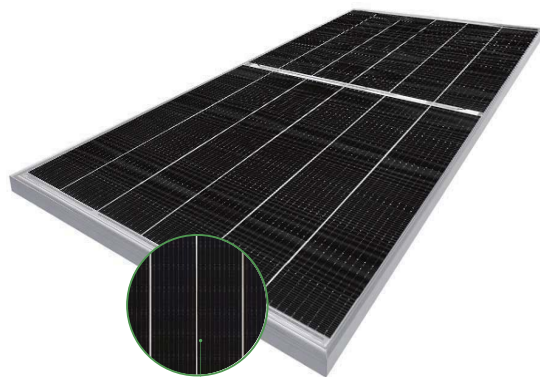
#### Enhanced Mechanical Load

Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).



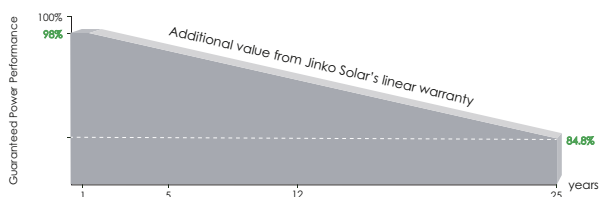
#### Avoid debris, cracks and broken gate risk effectively

9BB technology using circular ribbon that could avoid debris, cracks and broken gate risk effectively



Tiling Ribbon (TR) Technology

## LINEAR PERFORMANCE WARRANTY

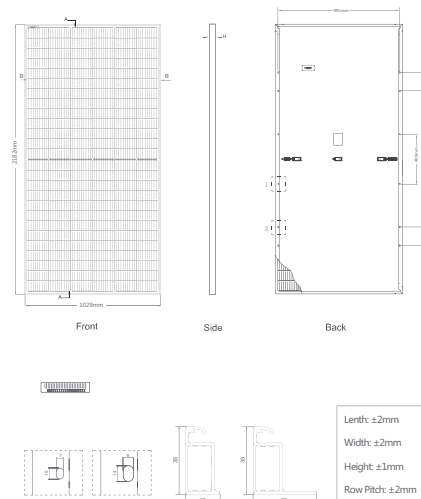


**12** Year Product Warranty

**25** Year Linear Power Warranty

**0.55%** Annual Degradation Over 25 years

## Engineering Drawings

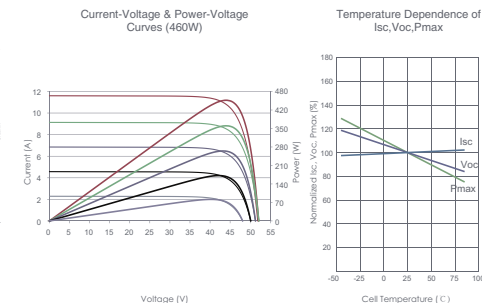


## Packaging Configuration

[ Two pallets = One stack ]

31 pcs/pallets, 62 pcs/stack, 620 pcs/40'HQ Container

## Electrical Performance & Temperature Dependence



## Mechanical Characteristics

Cell Type	P type Mono-crystalline
No. of cells	156(2×78)
Dimensions	2182×1029×35mm (85.91×40.51×1.38 inch)
Weight	25.0kg (55.12 lbs)
Front Glass	3.2mm, Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Output Cables	TUV 1×4.0mm (+): 290mm, (-): 145mm or Customized Length

## SPECIFICATIONS

Module Type	JKM460M-7RL3		JKM465M-7RL3		JKM470M-7RL3		JKM475M-7RL3		JKM480M-7RL3	
	JKM460M-7RL3-V		JKM465M-7RL3-V		JKM470M-7RL3-V		JKM475M-7RL3-V		JKM480M-7RL3-V	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	460Wp	342Wp	465Wp	346Wp	470Wp	350Wp	475Wp	353Wp	480Wp	357Wp
Maximum Power Voltage (Vmp)	43.08V	39.43V	43.18V	39.58V	43.28V	39.69V	43.38V	39.75V	43.48V	39.90V
Maximum Power Current (Imp)	10.68A	8.68A	10.77A	8.74A	10.86A	8.81A	10.95A	8.89A	11.04A	8.95A
Open-circuit Voltage (Voc)	51.70V	48.80V	51.92V	49.01V	52.14V	49.21V	52.24V	49.31V	52.34V	49.40V
Short-circuit Current (Isc)	11.50A	9.29A	11.59A	9.36A	11.68A	9.43A	11.77A	9.51A	11.86A	9.58A
Module Efficiency STC (%)	20.49%		20.71%		20.93%		21.16%		21.38%	
Operating Temperature(°C)	-40°C~+85°C									
Maximum System Voltage	1000/1500VDC (IEC)									
Maximum Series Fuse Rating	20A									
Power Tolerance	0~+3%									
Temperature Coefficients of Pmax	-0.35%/°C									
Temperature Coefficients of Voc	-0.28%/°C									
Temperature Coefficients of Isc	0.048%/°C									
Nominal Operating Cell Temperature (NOCT)	45±2°C									

\*STC: ☀ Irradiance 1000W/m<sup>2</sup>

📏 Cell Temperature 25°C

☁ AM=1.5

NOCT: ☀ Irradiance 800W/m<sup>2</sup>

📏 Ambient Temperature 20°C

☁ AM=1.5

🌀 Wind Speed 1m/s

# Tiger N-Type 60TR

## 360-380 Watt

### MONO FACIAL MODULE

#### N-Type

Positive power tolerance of 0~+3%

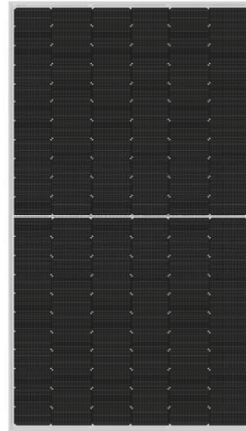
IEC 61215(2016), IEC 61730(2016)

ISO 9001:2015: Quality Management System

ISO 14001:2015: Environment Management System

ISO 45001:2018

Occupational health and safety management systems



## Key Features



#### Multi Busbar Technology

MBB solar cell adopts new technology to improve the efficiency of modules, offers a better aesthetic appearance.



#### PID Resistance

Excellent Anti-PID performance guarantee via optimized mass-production process and materials control.



#### Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance.



#### Hot 2.0 Technology

The N-type module with Hot 2.0 technology has better reliability and lower LID/LETID.

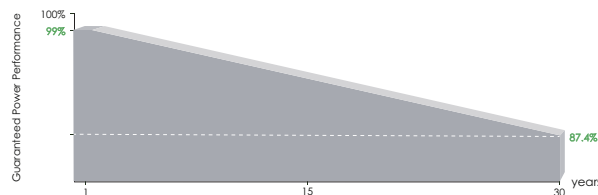


#### Enhanced Mechanical Load

Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).



## LINEAR PERFORMANCE WARRANTY

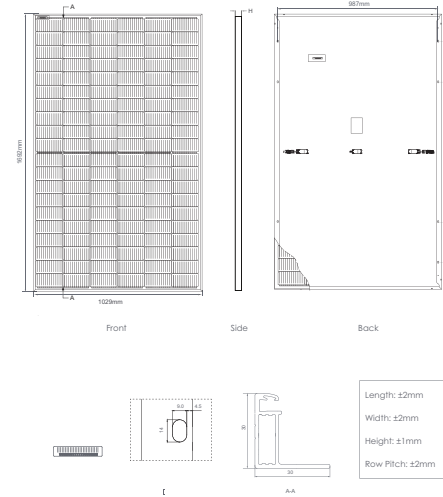


15 Year Product Warranty

30 Year Linear Power Warranty

0.4% Annual Degradation Over 30 years

## Engineering Drawings

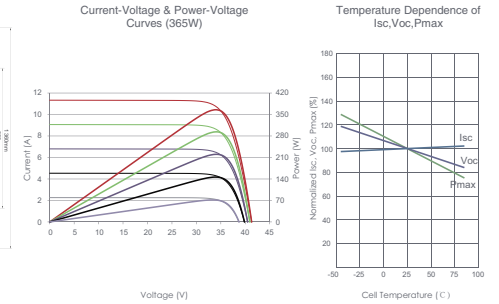


## Packaging Configuration

(Two pallets = One stack)

36pcs/pallets, 72pcs/stack, 936pcs/ 40HQ Container

## Electrical Performance & Temperature Dependence



## Mechanical Characteristics

Cell Type	N type Mono-crystalline
No. of cells	120 (6×20)
Dimensions	1692×1029×30mm (66.61×40.51×1.18 inch)
Weight	19.0 kg (41.89 lbs)
Front Glass	3.2mm, Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Output Cables	TUV 1×4.0mm <sup>2</sup> (+): 290mm, (-): 145mm or Customized Length

## SPECIFICATIONS

Module Type	JKM360N-6TL3 JKM360N-6TL3-V		JKM365N-6TL3 JKM365N-6TL3-V		JKM370N-6TL3 JKM370N-6TL3-V		JKM375N-6TL3 JKM375N-6TL3-V		JKM380N-6TL3 JKM380N-6TL3-V	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	360Wp	268Wp	365Wp	272Wp	370Wp	276Wp	375Wp	280Wp	380Wp	283Wp
Maximum Power Voltage (Vmp)	34.19V	31.58V	34.34V	31.72V	34.49V	31.88V	34.63V	32.03V	34.77V	32.20V
Maximum Power Current (Imp)	10.53A	8.50A	10.63A	8.58A	10.73A	8.65A	10.83A	8.73A	10.93A	8.80A
Open-circuit Voltage (Voc)	41.80V	39.45V	42.05V	39.69V	42.30V	39.93V	42.55V	40.16V	42.77V	40.37V
Short-circuit Current (Isc)	11.23A	9.07A	11.33A	9.15A	11.43A	9.23A	11.53A	9.31A	11.63A	9.39A
Module Efficiency STC (%)	20.66%		20.95%		21.24		21.53%		21.81%	
Operating Temperature(°C)					-40°C~+85°C					
Maximum System Voltage					1000/1500VDC (IEC)					
Maximum Series Fuse Rating					20A					
Power Tolerance					0~+3%					
Temperature Coefficients of Pmax					-0.34%/°C					
Temperature Coefficients of Voc					-0.28%/°C					
Temperature Coefficients of Isc					0.048%/°C					
Nominal Operating Cell Temperature (NOCT)					45±2°C					

\*STC: ☀ Irradiance 1000W/m<sup>2</sup> 📏 Cell Temperature 25°C ☁ AM=1.5  
 NOCT: ☀ Irradiance 800W/m<sup>2</sup> 📏 Ambient Temperature 20°C ☁ AM=1.5 🌀 Wind Speed 1m/s



# Tiger N-Type 66TR 400-420 Watt

## MONO-FACIAL MODULE

### N-Type

Positive power tolerance of 0~+3%

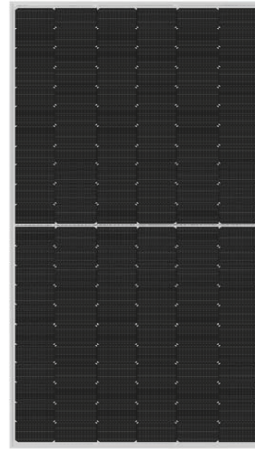
IEC 61215(2016), IEC 61730(2016)

ISO 9001:2015: Quality Management System

ISO 14001:2015: Environment Management System

ISO 45001:2018

Occupational health and safety management systems



## Key Features



### Multi Busbar Technology

Better light trapping and current collection to improve module power output and reliability.



### PID Resistance

Excellent Anti-PID performance guarantee via optimized mass-production process and materials control.



### Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance.



### Hot 2.0 Technology

The N-type module with Hot 2.0 technology has better reliability and lower LID/LETID.

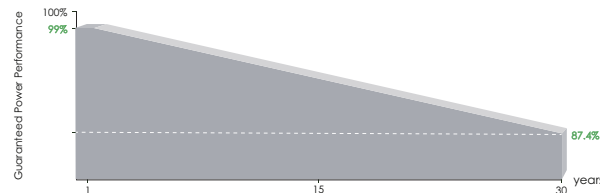


### Enhanced Mechanical Load

Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).



## LINEAR PERFORMANCE WARRANTY

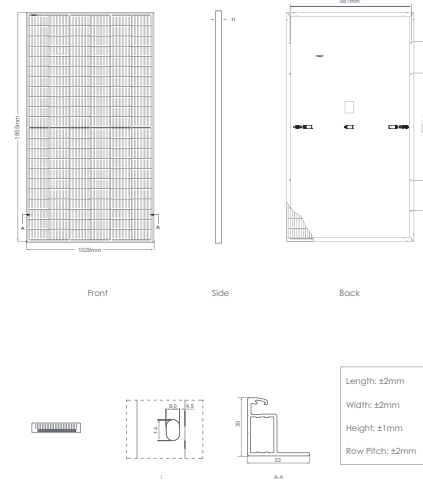


15 Year Product Warranty

30 Year Linear Power Warranty

0.4% Annual Degradation Over 30 years

## Engineering Drawings

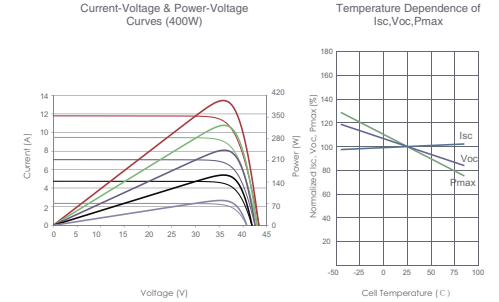


## Packaging Configuration

(Two pallets = One stack)

36pcs/pallets, 72pcs/stack, 864pcs/40'HQ Container

## Electrical Performance & Temperature Dependence



## Mechanical Characteristics

Cell Type	N type Mono-crystalline
No. of cells	132 (2×66)
Dimensions	1855×1029×30mm (73.03×40.51×1.18 inch)
Weight	20.8kg (45.86 lbs)
Front Glass	3.2mm, Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Output Cables	TUV 1×4.0mm <sup>2</sup> (+): 290mm, (-): 145mm or Customized Length

## SPECIFICATIONS

Module Type	JKM400N-6RL3 JKM400N-6RL3-V		JKM405N-6RL3 JKM405N-6RL3-V		JKM410N-6RL3 JKM410N-6RL3-V		JKM415N-6RL3 JKM415N-6RL3-V		JKM420N-6RL3 JKM420N-6RL3-V	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (P <sub>max</sub> )	400Wp	298Wp	405Wp	302Wp	410Wp	306Wp	415Wp	309Wp	420Wp	313Wp
Maximum Power Voltage (V <sub>mp</sub> )	36.33V	33.59V	36.48V	33.70V	36.64V	33.78V	36.79V	33.89V	36.94V	33.96V
Maximum Power Current (I <sub>mp</sub> )	11.01A	8.88A	11.10A	8.96A	11.19A	9.05A	11.28A	9.13A	11.37A	9.22A
Open-circuit Voltage (V <sub>oc</sub> )	46.05V	43.47V	46.30V	43.70V	46.55V	43.94V	46.77V	44.14V	47.00V	44.36V
Short-circuit Current (I <sub>sc</sub> )	11.73A	9.47A	11.84A	9.56A	11.95A	9.65A	12.06A	9.74A	12.17A	9.83A
Module Efficiency STC (%)	20.96%		21.22%		21.48%		21.74%		22.00%	
Operating Temperature(°C)	-40°C ~ +85°C									
Maximum System Voltage	1000/1500VDC (IEC)									
Maximum Series Fuse Rating	20A									
Power Tolerance	0~+3%									
Temperature Coefficients of P <sub>max</sub>	-0.34%/°C									
Temperature Coefficients of V <sub>oc</sub>	-0.28%/°C									
Temperature Coefficients of I <sub>sc</sub>	0.048%/°C									
Nominal Operating Cell Temperature (NOCT)	45±2°C									

\*STC: ☀ Irradiance 1000W/m<sup>2</sup> ☀ Cell Temperature 25°C ☁ AM=1.5  
 NOCT: ☀ Irradiance 800W/m<sup>2</sup> ☀ Ambient Temperature 20°C ☁ AM=1.5 🌀 Wind Speed 1m/s

# TIGER Pro Series

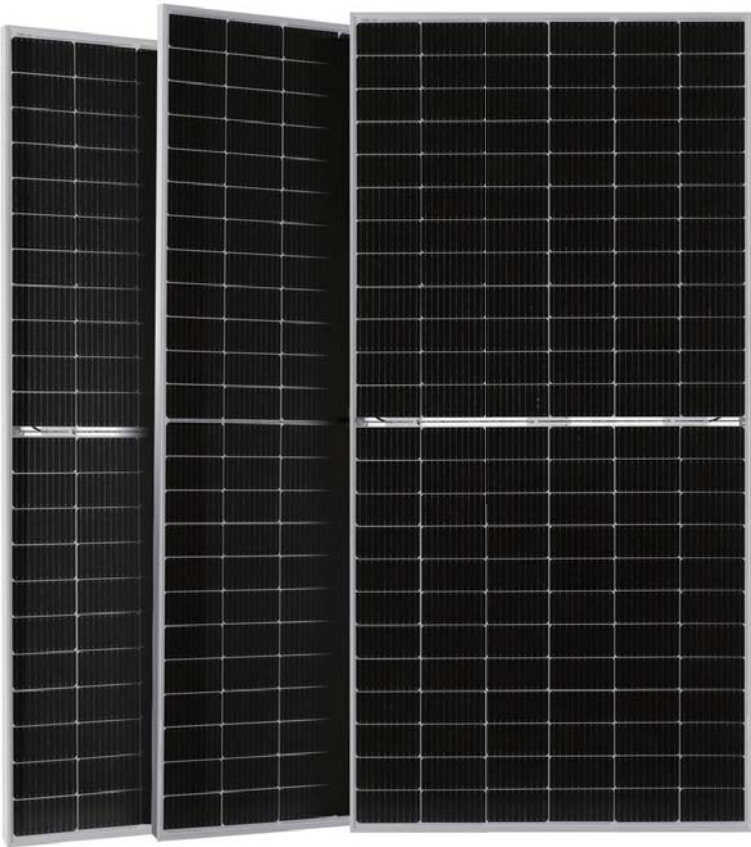


Designed for  
residential  
commercial  
Utility



## Completes System and Product Certifications

IEC61215(2016), IEC61730(2016)  
ISO9001:2015: Quality Management System  
ISO14001:2015: Environment Management System  
ISO45001:2018: Occupational health and safety management systems



# Customer Benefits



Multi Busbar



PID Resistance



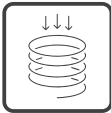
Higher Lifetime Power Yield



Saving BOS Cost



Higher power output



Severe Weather Resilience



Low-light Performance



Durability Against Extreme  
Environmental Conditions



High Efficiency

Product	# of cells	Size/Weight
JKM395-415M-54HL4-(V)	106 cells (2×54)	1722×1134×30mm / 22.0kg
JKM440-460M-60HL4-(V)	120 cells (6×20)	1903×1134×30mm / 24.2kg
JKM530-550M-72HL4-(V)	144 cells (6×24)	2278×1134×35mm / 28.0kg
JKM525-545M-72HL4-BDVP	144 cells (6×24)	2278×1134×30mm / 32.0kg
JKM525-545M-72HL4-TV	144 cells (6×24)	2278×1134×35mm / 28.0kg

# Tiger Pro 54HC

## 395-415 Watt

### MONO-FACIAL MODULE

#### P-Type

Positive power tolerance of 0~+3%

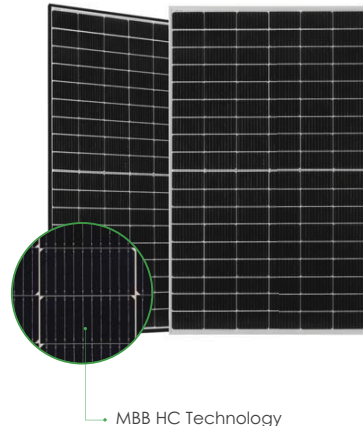
IEC61215(2016), IEC61730(2016)

ISO9001:2015: Quality Management System

ISO14001:2015: Environment Management System

ISO45001:2018

Occupational health and safety management systems



MBB HC Technology

## Key Features



#### Multi Busbar Technology

Better light trapping and current collection to improve module power output and reliability.



#### Reduced Hot Spot Loss

Optimized electrical design and lower operating current for reduced hot spot loss and better temperature coefficient.



#### PID Resistance

Excellent Anti-PID performance guarantee via optimized mass-production process and materials control.



#### Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance.

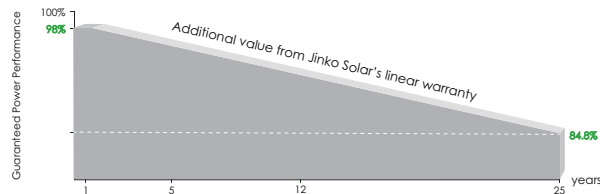


#### Enhanced Mechanical Load

Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).



## LINEAR PERFORMANCE WARRANTY

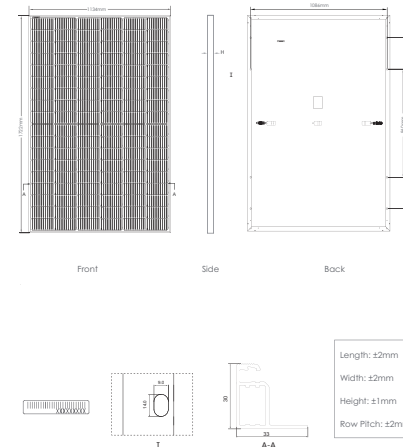


15 Year Product Warranty

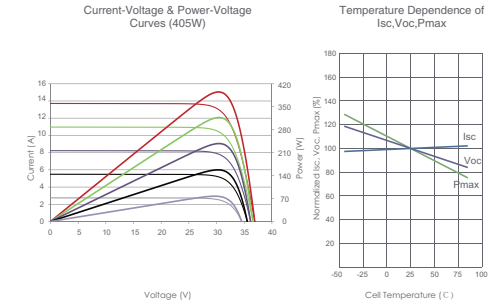
25 Year Linear Power Warranty

0.55% Annual Degradation Over 25 years

## Engineering Drawings



## Electrical Performance & Temperature Dependence



## Mechanical Characteristics

Cell Type	P type Mono-crystalline
No. of cells	108 (2x54)
Dimensions	1722×1134×30mm (67.80×44.65×1.18 inch)
Weight	22.0 kg (48.50 lbs)
Front Glass	3.2mm, Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Output Cables	TUV 1×4.0mm: (+): 400mm, (-): 200mm or Customized Length

## Packaging Configuration

(Two pallets = One stack)

36pcs/pallets, 72pcs/stack, 936pcs/ 40'HQ Container

## SPECIFICATIONS

Module Type	JKM395M-54HL4 JKM395M-54HL4-V		JKM400M-54HL4 JKM400M-54HL4-V		JKM405M-54HL4 JKM405M-54HL4-V		JKM410M-54HL4 JKM410M-54HL4-V		JKM415M-54HL4 JKM415M-54HL4-V	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	395Wp	294Wp	400Wp	298Wp	405Wp	301Wp	410Wp	305Wp	415Wp	309Wp
Maximum Power Voltage (Vmp)	30.32V	28.26V	30.42V	28.42V	30.52V	28.56V	30.62V	28.72V	30.79V	28.88V
Maximum Power Current (Imp)	13.03A	10.40A	13.15A	10.47A	13.27A	10.55A	13.39A	10.62A	13.48A	10.69A
Open-circuit Voltage (Voc)	36.90V	34.83V	36.98V	34.90V	37.06V	34.98V	37.14V	35.05V	37.31V	35.21V
Short-circuit Current (Isc)	13.71A	11.07A	13.78A	11.13A	13.85A	11.19A	13.92A	11.24A	14.01A	11.32A
Module Efficiency STC (%)	20.23%		20.48%		20.74%		21.00%		21.25%	
Operating Temperature(°C)	-40°C→+85°C									
Maximum system voltage	1000/1500VDC (IEC)									
Maximum series fuse rating	20A									
Power Tolerance	0→+3%									
Temperature coefficients of Pmax	-0.35%/°C									
Temperature coefficients of Voc	-0.28%/°C									
Temperature coefficients of Isc	0.048%/°C									
Nominal operating cell temperature (NOCT)	45±2°C									

\*STC: ☀ Irradiance 1000W/m<sup>2</sup>

📖 Cell Temperature 25°C

☁ AM=1.5

NOCT: ☀ Irradiance 800W/m<sup>2</sup>

📖 Ambient Temperature 20°C

☁ AM=1.5

🌀 Wind Speed 1m/s

# Tiger Pro 60HC

## 440-460 Watt

### MONO-FACIAL MODULE

#### P-Type

Positive power tolerance of 0~+3%

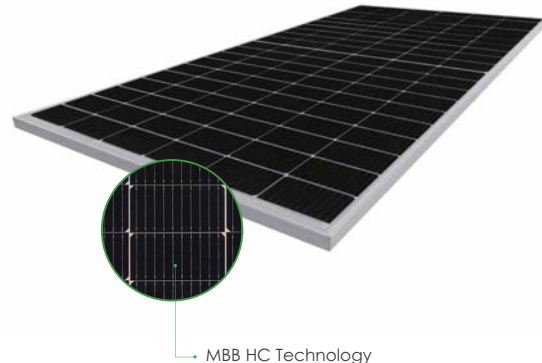
IEC61215(2016), IEC61730(2016)

ISO9001:2015: Quality Management System

ISO14001:2015: Environment Management System

ISO45001:2018

Occupational health and safety management systems



MBB HC Technology

## Key Features



#### Multi Busbar Technology

Better light trapping and current collection to improve module power output and reliability.



#### Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance.



#### Reduced Hot Spot Loss

Optimized electrical design and lower operating current for reduced hot spot loss and better temperature coefficient.



#### Enhanced Mechanical Load

Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).

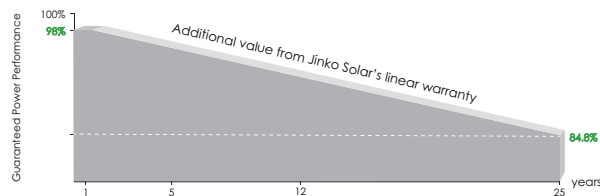


#### PID Resistance

Excellent Anti-PID performance guarantee via optimized mass-production process and materials control.



## LINEAR PERFORMANCE WARRANTY

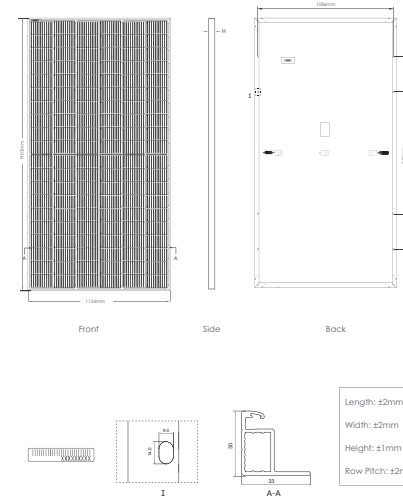


12 Year Product Warranty

25 Year Linear Power Warranty

0.55% Annual Degradation Over 25 years

## Engineering Drawings

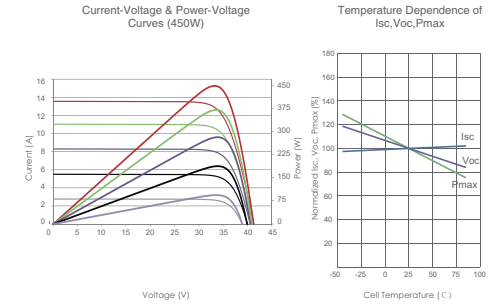


## Packaging Configuration

(Two pallets = One stack)

35pcs/pallets, 70pcs/stack, 840pcs/ 40'HQ Container

## Electrical Performance & Temperature Dependence



## Mechanical Characteristics

Cell Type	P type Mono-crystalline
No. of cells	120 (6×20)
Dimensions	1903×1134×30mm (74.92×44.65×1.18 inch)
Weight	24.2 kg (53.35 lbs)
Front Glass	3.2mm Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Output Cables	TUV 1×4.0mm <sup>2</sup> (+): 400mm, (-): 200mm or Customized Length

## SPECIFICATIONS

Module Type	JKM440M-60HL4		JKM445M-60HL4		JKM450M-60HL4		JKM455M-60HL4		JKM460M-60HL4	
	JKM440M-60HL4-V		JKM445M-60HL4-V		JKM450M-60HL4-V		JKM455M-60HL4-V		JKM460M-60HL4-V	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	440Wp	327Wp	445Wp	331 Wp	450Wp	335Wp	455Wp	339Wp	460Wp	342Wp
Maximum Power Voltage (Vmp)	33.72V	31.39V	33.82V	31.56V	33.91V	31.73V	34.06V	31.91V	34.20V	32.07V
Maximum Power Current (Imp)	13.05A	10.43A	13.16A	10.49A	13.27A	10.55A	13.36A	10.61A	13.45A	10.67A
Open-circuit Voltage (Voc)	41.02V	38.72V	41.10V	38.79V	41.18V	38.87V	41.33V	39.01V	41.48V	39.15V
Short-circuit Current (Isc)	13.73A	11.09A	13.79A	11.14A	13.85A	11.19A	13.93A	11.25A	14.01A	11.32A
Module Efficiency STC (%)	20.39%		20.62%		20.85%		21.08%		21.32%	
Operating Temperature(°C)	-40°C~+85°C									
Maximum system voltage	1000/1500VDC (IEC)									
Maximum series fuse rating	25A									
Power tolerance	0~+3%									
Temperature coefficients of Pmax	-0.35%/°C									
Temperature coefficients of Voc	-0.28%/°C									
Temperature coefficients of Isc	0.048%/°C									
Nominal operating cell temperature (NOCT)	45±2°C									

\*STC: ☀ Irradiance 1000W/m<sup>2</sup> 📏 Cell Temperature 25°C ☁ AM=1.5  
 NOCT: ☀ Irradiance 800W/m<sup>2</sup> 📏 Ambient Temperature 20°C ☁ AM=1.5 🌀 Wind Speed 1m/s



# Tiger Pro 72HC

## 530-550 Watt

### MONO-FACIAL MODULE

#### P-Type

Positive power tolerance of 0~+3%

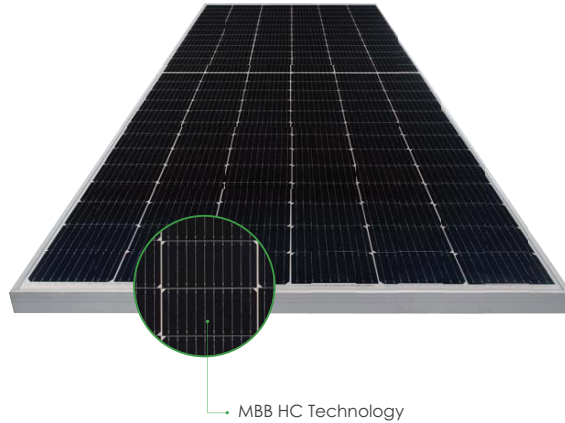
IEC61215(2016), IEC61730(2016)

ISO9001:2015: Quality Management System

ISO14001:2015: Environment Management System

ISO45001:2018

Occupational health and safety management systems



MBB HC Technology

## Key Features



#### Multi Busbar Technology

Better light trapping and current collection to improve module power output and reliability.



#### Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance.



#### Reduced Hot Spot Loss

Optimized electrical design and lower operating current for reduced hot spot loss and better temperature coefficient.



#### Enhanced Mechanical Load

Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).

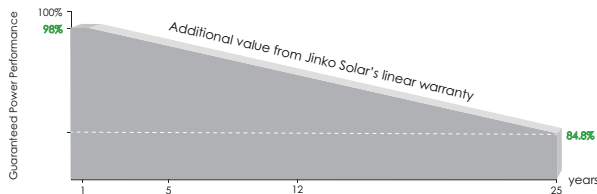


#### Longer Life-time Power Yield

0.55% annual power degradation and 25 year linear power warranty.



## LINEAR PERFORMANCE WARRANTY

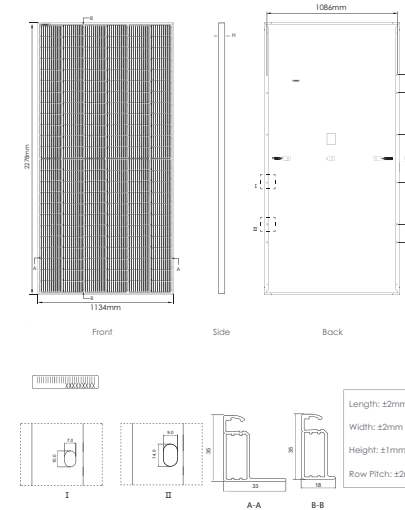


12 Year Product Warranty

25 Year Linear Power Warranty

0.55% Annual Degradation Over 25 years

## Engineering Drawings

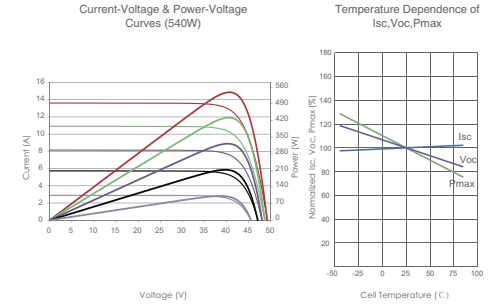


## Packaging Configuration

(Two pallets = One stack)

31 pcs/pallets, 62 pcs/stack, 620 pcs/ 40'HQ Container

## Electrical Performance & Temperature Dependence



## Mechanical Characteristics

Cell Type	P type Mono-crystalline
No. of cells	144 (6×24)
Dimensions	2278×1134×35mm (89.69×44.65×1.38 inch)
Weight	28 kg (61.73 lbs)
Front Glass	3.2mm, Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Output Cables	TUV 1×4.0mm <sup>2</sup> (+): 400mm, (-): 200mm or Customized Length

## SPECIFICATIONS

Module Type	JKM530M-72HL4 JKM530M-72HL4-V		JKM535M-72HL4 JKM535M-72HL4-V		JKM540M-72HL4 JKM540M-72HL4-V		JKM545M-72HL4 JKM545M-72HL4-V		JKM550M-72HL4 JKM550M-72HL4-V	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	530Wp	394Wp	535Wp	398Wp	540Wp	402Wp	545Wp	405Wp	550Wp	409Wp
Maximum Power Voltage (Vmp)	40.56V	37.84V	40.63V	37.91V	40.70V	38.08V	40.80V	38.25V	40.90V	38.42V
Maximum Power Current (Imp)	13.07A	10.42A	13.17A	10.50A	13.27A	10.55A	13.36A	10.60A	13.45A	10.65A
Open-circuit Voltage (Voc)	49.26V	46.50V	49.34V	46.57V	49.42V	46.65V	49.52V	46.74V	49.62V	46.84V
Short-circuit Current (Isc)	13.71A	11.07A	13.79A	11.14A	13.85A	11.19A	13.94A	11.26A	14.03A	11.33A
Module Efficiency STC (%)	20.52%		20.71%		20.90%		21.10%		21.29%	
Operating Temperature(°C)	-40°C~+85°C									
Maximum system voltage	1000/1500VDC (IEC)									
Maximum series fuse rating	25A									
Power tolerance	0~+3%									
Temperature coefficients of Pmax	-0.35%/°C									
Temperature coefficients of Voc	-0.28%/°C									
Temperature coefficients of Isc	0.048%/°C									
Nominal operating cell temperature (NOCT)	45±2°C									

\*STC: ☀ Irradiance 1000W/m<sup>2</sup> 📏 Cell Temperature 25°C

NOCT: ☀ Irradiance 800W/m<sup>2</sup> 📏 Ambient Temperature 20°C

☁ AM=1.5

☁ AM=1.5

🌀 Wind Speed 1m/s

# Tiger Pro 72HC-BDVP

## 525-545 Watt

### BIFACIAL MODULE WITH DUAL GLASS

#### P-Type

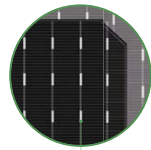
Positive power tolerance of 0~+3%

IEC61215(2016), IEC61730(2016)

ISO9001:2015: Quality Management System

ISO14001:2015: Environment Management System

ISO45001:2018  
Occupational health and safety management systems



→ Bifacial Technology

## Key Features



#### Multi Busbar Technology

Better light trapping and current collection to improve module power output and reliability.



#### PID Resistance

Excellent Anti-PID performance guarantee via optimized mass-production process and materials control.



#### Higher Power Output

Module power increases 5-25% generally, bringing significantly lower LCOE and higher IRR.



#### Longer Life-time Power Yield

0.45% annual power degradation and 30 year linear power warranty.

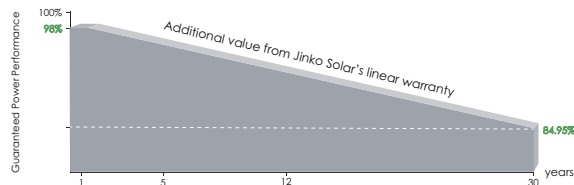


#### Enhanced Mechanical Load

Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).



## LINEAR PERFORMANCE WARRANTY

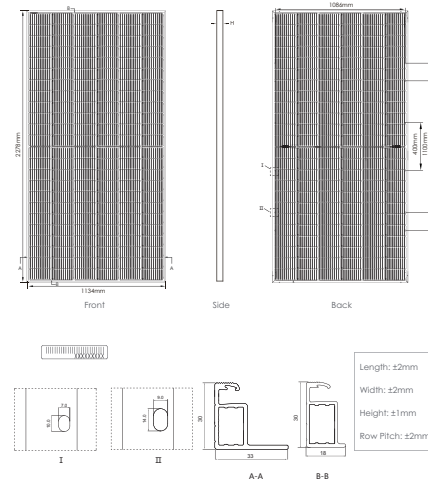


12 Year Product Warranty

30 Year Linear Power Warranty

0.45% Annual Degradation Over 30 years

## Engineering Drawings

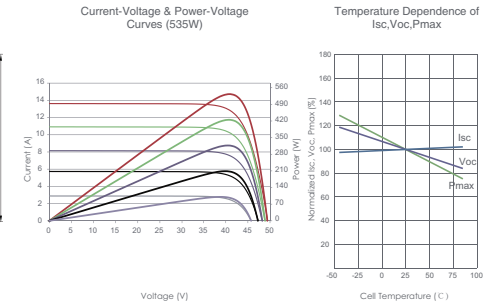


## Packaging Configuration

(Two pallets = One stack)

35pcs/pallets, 70pcs/stack, 700pcs/ 40'HQ Container

## Electrical Performance & Temperature Dependence



## Mechanical Characteristics

Cell Type	P type Mono-crystalline
No. of cells	144 (6×24)
Dimensions	2278×1134×30mm (89.69×44.65×1.18 inch)
Weight	32 kg (70.55 lbs)
Front Glass	2.0mm, Anti-Reflection Coating
Back Glass	2.0mm, Heat Strengthened Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Output Cables	TUV 1×4.0mm <sup>2</sup> (+): 400mm, (-): 200mm or Customized Length

## SPECIFICATIONS

Module Type	JKM525M-72HL4-BDVP		JKM530M-72HL4-BDVP		JKM535M-72HL4-BDVP		JKM540M-72HL4-BDVP		JKM545M-72HL4-BDVP	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	525Wp	391Wp	530Wp	394Wp	535Wp	398Wp	540Wp	402Wp	545Wp	405Wp
Maximum Power Voltage (Vmp)	40.80V	37.81V	40.87V	37.88V	40.94V	37.94V	41.13V	38.08V	41.32V	38.25V
Maximum Power Current (Imp)	12.87A	10.33A	12.97A	10.41A	13.07A	10.49A	13.13A	10.55A	13.19A	10.60A
Open-circuit Voltage (Voc)	49.42V	46.65V	49.48V	46.70V	49.54V	46.76V	49.73V	46.94V	49.92V	47.12V
Short-circuit Current (Isc)	13.63A	11.01A	13.73A	11.09A	13.83A	11.17A	13.89A	11.22A	13.95A	11.27A
Module Efficiency STC (%)	20.32%		20.52%		20.71%		20.90%		21.10%	
Operating Temperature(°C)	-40°C~+85°C									
Maximum system voltage	1500VDC (IEC)									
Maximum series fuse rating	30A									
Power Tolerance	0~+3%									
Temperature coefficients of Pmax	-0.35%/°C									
Temperature coefficients of Voc	-0.28%/°C									
Temperature coefficients of Isc	0.048%/°C									
Nominal operating cell temperature (NOCT)	45±2°C									
Refer. Bifacial Factor	70±5%									

## BIFACIAL OUTPUT-REAR SIDE POWER GAIN

5%	Maximum Power (Pmax)	551Wp	557Wp	562Wp	567Wp	572Wp
	Module Efficiency STC (%)	21.33%	21.56%	21.76%	21.95%	22.14%
15%	Maximum Power (Pmax)	604Wp	610Wp	615Wp	621Wp	623Wp
	Module Efficiency STC (%)	23.38%	23.61%	23.81%	24.04%	24.27%
25%	Maximum Power (Pmax)	656Wp	663Wp	669Wp	675Wp	681Wp
	Module Efficiency STC (%)	25.39%	25.67%	25.90%	26.13%	26.36%

\*STC: ☀ Irradiance 1000W/m<sup>2</sup>

🔌 Cell Temperature 25°C

☁ AM=1.5

NOCT: ☀ Irradiance 800W/m<sup>2</sup>

🔌 Ambient Temperature 20°C

☁ AM=1.5

🌀 Wind Speed 1m/s

# Tiger Pro 72HC-TV

## 525-545 Watt

### BIFACIAL MODULE WITH TRANSPARENT BACKSHEET

#### P-Type

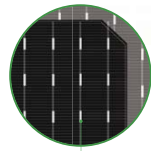
Positive power tolerance of 0~+3%

IEC61215(2016), IEC61730(2016)

ISO9001:2015: Quality Management System

ISO14001:2015: Environment Management System

ISO45001:2018  
Occupational health and safety management systems



→ Bifacial Technology

## Key Features



#### Multi Busbar Technology

Better light trapping and current collection to improve module power output and reliability.



#### Light-weight design

Light-weight design using transparent backsheet for easy installation and low BOS cost.



#### Higher Power Output

Module power increases 5-25% generally, bringing significantly lower LCOE and higher IRR.



#### Longer Life-time Power Yield

0.45% annual power degradation and 30 year linear power warranty.

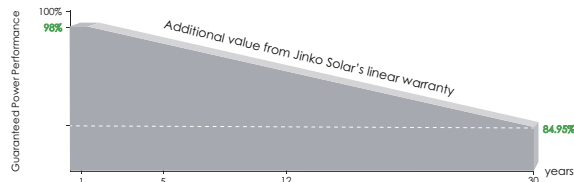


#### Enhanced Mechanical Load

Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).



## LINEAR PERFORMANCE WARRANTY

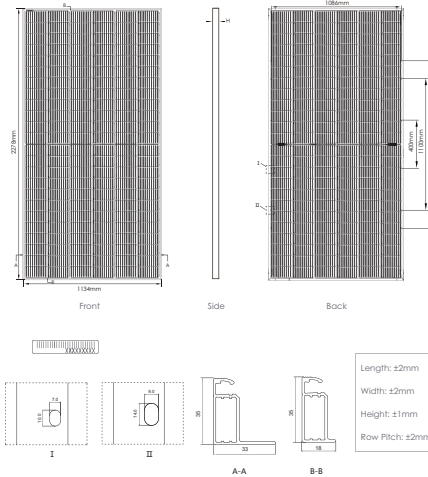


12 Year Product Warranty

30 Year Linear Power Warranty

0.45% Annual Degradation Over 30 years

## Engineering Drawings

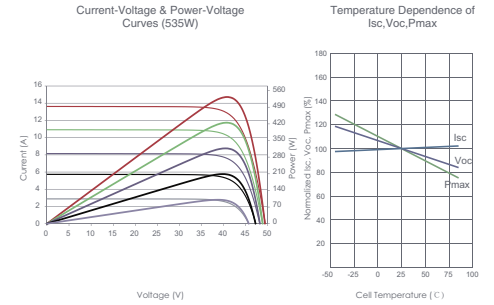


## Packaging Configuration

(Two pallets = One stack)

31pcs/pallets, 62pcs/stack, 620pcs/ 40'HQ Container

## Electrical Performance & Temperature Dependence



## Mechanical Characteristics

Cell Type	P type Mono-crystalline
No. of cells	144 (6×24)
Dimensions	2278×1134×35mm (89.69×44.65×1.38 inch)
Weight	28 kg (61.73 lbs)
Front Glass	3.2mm, Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Output Cables	TUV 1×4.0mm <sup>2</sup> (+): 400mm, (-): 200mm or Customized Length

## SPECIFICATIONS

Module Type	JKM525M-72HL4-TV		JKM530M-72HL4-TV		JKM535M-72HL4-TV		JKM540M-72HL4-TV		JKM545M-72HL4-TV	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	525Wp	391Wp	530Wp	394Wp	535Wp	398Wp	540Wp	402Wp	545Wp	405Wp
Maximum Power Voltage (Vmp)	40.61V	37.74V	40.71V	37.88V	40.81V	37.98V	40.91V	38.08V	41.07V	38.18V
Maximum Power Current (Imp)	12.93A	10.35A	13.02A	10.41A	13.11A	10.48A	13.20A	10.55A	13.27A	10.62A
Open-circuit Voltage (Voc)	49.27V	46.50V	49.35V	46.58V	49.42V	46.65V	49.49V	46.71V	49.65V	46.86V
Short-circuit Current (Isc)	13.64A	11.02A	13.71A	11.07A	13.79A	11.14A	13.87A	11.20A	13.94A	11.26A
Module Efficiency STC (%)	20.32%		20.52%		20.71%		20.90%		21.10%	
Operating Temperature(°C)	-40°C~+85°C									
Maximum system voltage	1500VDC (IEC)									
Maximum series fuse rating	30A									
Power tolerance	0~+3%									
Temperature coefficients of Pmax	-0.35%/°C									
Temperature coefficients of Voc	-0.28%/°C									
Temperature coefficients of Isc	0.048%/°C									
Nominal operating cell temperature (NOCT)	45±2°C									
Refer. Bifacial Factor	70±5%									

## BIFACIAL OUTPUT-REAR SIDE POWER GAIN

5%	Maximum Power (Pmax)	551Wp	557Wp	562Wp	567Wp	572Wp
	Module Efficiency STC (%)	21.33%	21.56%	21.76%	21.95%	22.14%
15%	Maximum Power (Pmax)	604Wp	610Wp	615Wp	621Wp	623Wp
	Module Efficiency STC (%)	23.38%	23.61%	23.81%	24.04%	24.27%
25%	Maximum Power (Pmax)	656Wp	663Wp	669Wp	675Wp	681Wp
	Module Efficiency STC (%)	25.39%	25.67%	25.90%	26.13%	26.36%

\*STC: ☀ Irradiance 1000W/m<sup>2</sup>

📱 Cell Temperature 25°C

☁ AM=1.5

NOCT: ☀ Irradiance 800W/m<sup>2</sup>

📱 Ambient Temperature 20°C

☁ AM=1.5

🌀 Wind Speed 1m/s

# TIGER Neo Series

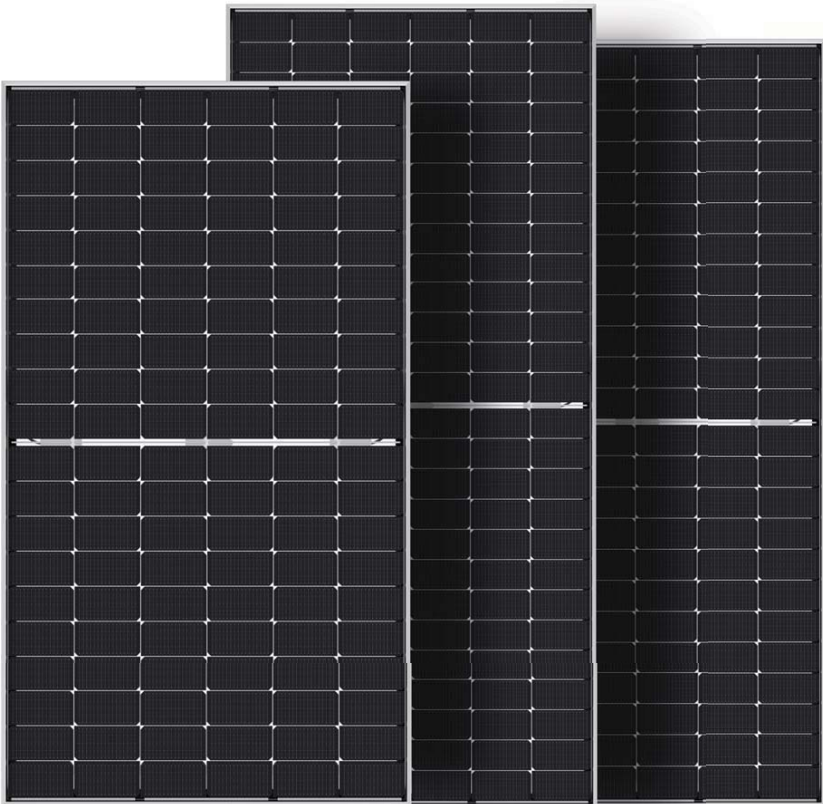


Designed for  
residential  
commercial  
Utility



## Completes System and Product Certifications

IEC61215(2016), IEC61730(2016)  
ISO9001:2015: Quality Management System  
ISO14001:2015: Environment Management System  
ISO45001:2018: Occupational health and safety management systems



# Customer Benefits



SMBB Technology



Hot 2.0 Technology



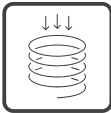
Higher Lifetime Power Yield



Saving BOS Cost



Higher power output



Severe Weather Resilience



Low-light Performance



Durability Against Extreme  
Environmental Conditions



High Efficiency

Product	# of cells	Size/Weight
JKM410-430N-54HL4-(V)	108 cells (6×18)	1722×1134×30mm / 22.0kg
JKM460-480N-60HL4-(V)	120 cells (6×20)	1903×1134×30mm / 24.2kg
JKM555-575N-72HL4-(V)	144 cells (6×24)	2278×1134×35mm / 28.0kg
JKM550-570N-72HL4-BDV	144 cells (6×24)	2278×1134×30mm / 32.0kg
JKM595-615N-78HL4-(V)	156 cells (2×78)	2465×1134×35mm / 30.6kg
JKM590-610N-78HL4-BDV	156 cells (2×78)	2465×1134×35mm / 34.6kg



# Tiger Neo N-type 54HL4-(V) 410-430 Watt MONO-FACIAL MODULE

## N-Type

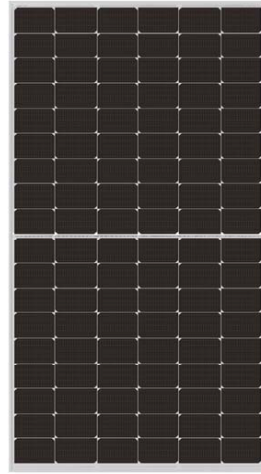
Positive power tolerance of 0~+3%

IEC61215(2016), IEC61730(2016)

ISO9001:2015: Quality Management System

ISO14001:2015: Environment Management System

ISO45001:2018  
Occupational health and safety management systems



## Key Features



### SMBB Technology

Better light trapping and current collection to improve module power output and reliability.



### PID Resistance

Excellent Anti-PID performance guarantee via optimized mass-production process and materials control.



### Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance.



### Hot 2.0 Technology

The N-type module with Hot 2.0 technology has better reliability and lower LID/LETID.

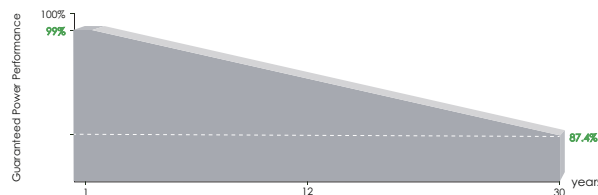


### Enhanced Mechanical Load

Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).



## LINEAR PERFORMANCE WARRANTY

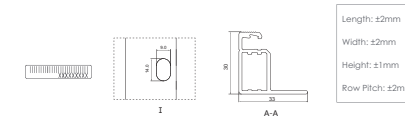
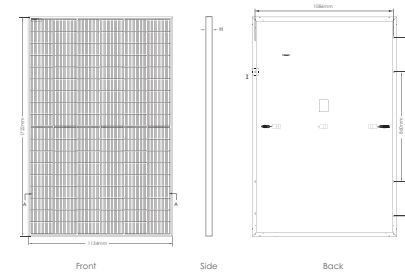


12 Year Product Warranty

30 Year Linear Power Warranty

0.40% Annual Degradation Over 30 years

## Engineering Drawings

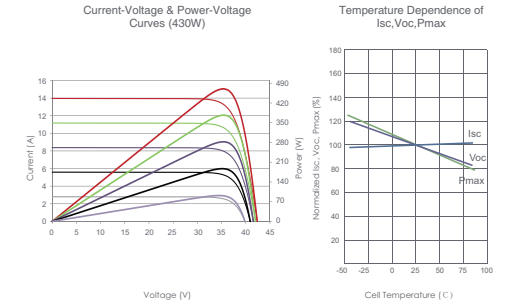


## Packaging Configuration

(Two pallets = One stack)

36pcs/pallets, 72pcs/stack, 936pcs/ 40'HQ Container

## Electrical Performance & Temperature Dependence



## Mechanical Characteristics

Cell Type	N type Mono-crystalline
No. of cells	108 (6×18)
Dimensions	1722×1134×30mm (67.79×44.65×1.18 inch)
Weight	22 kg (48.50 lbs)
Front Glass	3.2mm, Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Output Cables	TUV 1×4.0mm (+): 400mm, (-): 200mm or Customized Length

## SPECIFICATIONS

Module Type	JKM410N-54HL4		JKM415N-54HL4		JKM420N-54HL4		JKM425N-54HL4		JKM430N-54HL4	
	JKM410N-54HL4-V		JKM415N-54HL4-V		JKM420N-54HL4-V		JKM425N-54HL4-V		JKM430N-54HL4-V	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	410Wp	308Wp	415Wp	312Wp	420Wp	316Wp	425Wp	320Wp	480Wp	323Wp
Maximum Power Voltage (Vmp)	31.13V	29.06V	31.32V	29.21V	31.51V	29.34V	31.70V	29.50V	31.88V	29.63V
Maximum Power Current (Imp)	13.17A	10.61A	13.25A	10.68A	13.33A	10.76A	13.41A	10.83A	13.49A	10.91A
Open-circuit Voltage (Voc)	37.73V	35.84V	37.92V	36.02V	38.11V	36.20V	38.30V	36.38V	38.49V	36.56V
Short-circuit Current (Isc)	13.91A	11.23A	13.99A	11.29A	14.07A	11.36A	14.15A	11.42A	14.23A	11.49A
Module Efficiency STC (%)	21.00%		21.25%		21.51%		21.76%		22.02%	
Operating Temperature(°C)	-40°C~+85°C									
Maximum system voltage	1000/1500VDC (IEC)									
Maximum series fuse rating	25A									
Power tolerance	0~+3%									
Temperature coefficients of Pmax	-0.30%/°C									
Temperature coefficients of Voc	-0.25%/°C									
Temperature coefficients of Isc	0.046%/°C									
Nominal operating cell temperature (NOCT)	45±2°C									

\*STC:  Irradiance 1000W/m<sup>2</sup>

 Cell Temperature 25°C

 AM=1.5

NOCT:  Irradiance 800W/m<sup>2</sup>

 Ambient Temperature 20°C

 AM=1.5

 Wind Speed 1m/s

# Tiger Neo N-type 60HL4-(V) 460-480 Watt MONO-FACIAL MODULE

## N-Type

Positive power tolerance of 0~+3%

IEC61215(2016), IEC61730(2016)

ISO9001:2015: Quality Management System

ISO14001:2015: Environment Management System

ISO45001:2018  
Occupational health and safety management systems

## Key Features



### SMBB Technology

Better light trapping and current collection to improve module power output and reliability.



### PID Resistance

Excellent Anti-PID performance guarantee via optimized mass-production process and materials control.



### Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance.



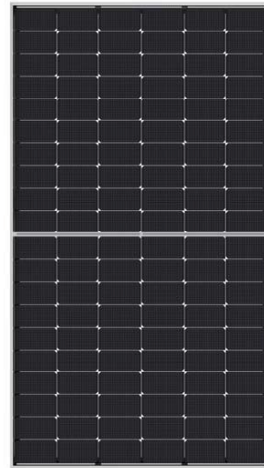
### Hot 2.0 Technology

The N-type module with Hot 2.0 technology has better reliability and lower LID/LETID.

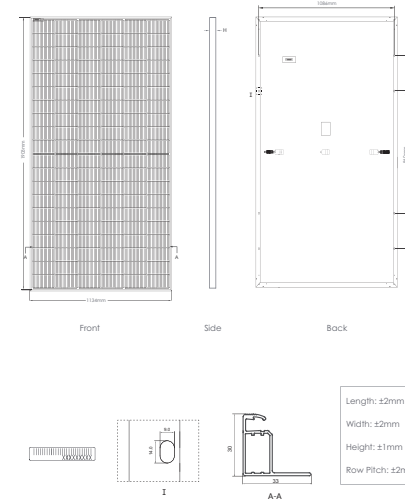


### Enhanced Mechanical Load

Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).



## Engineering Drawings

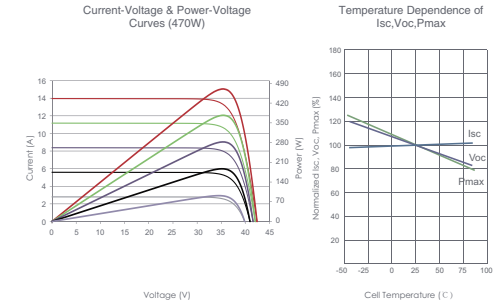


## Packaging Configuration

(Two pallets = One stack)

36pcs/pallets, 72pcs/stack, 864pcs/ 40'HQ Container

## Electrical Performance & Temperature Dependence



## Mechanical Characteristics

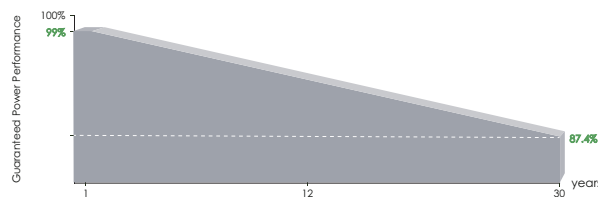
Cell Type	N type Mono-crystalline
No. of cells	120 (6×20)
Dimensions	1903×1134×30mm (74.92×44.65×1.18 inch)
Weight	24.2 kg (53.35 lbs)
Front Glass	3.2mm Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Output Cables	TUV 1×4.0mm <sup>2</sup> (+): 400mm, (-): 200mm or Customized Length

## SPECIFICATIONS

Module Type	JKM460N-60HL4 JKM460N-60HL4-V		JKM465N-60HL4 JKM465N-60HL4-V		JKM470N-60HL4 JKM470N-60HL4-V		JKM475N-60HL4 JKM475N-60HL4-V		JKM480N-60HL4 JKM480N-60HL4-V	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	460Wp	346Wp	465Wp	350Wp	470Wp	353Wp	475Wp	357Wp	480Wp	361Wp
Maximum Power Voltage (Vmp)	34.72V	32.60V	34.89V	32.77V	35.05V	32.94V	35.21V	33.10V	35.38V	33.27V
Maximum Power Current (Imp)	13.25A	10.61A	13.33A	10.67A	13.41A	10.73A	13.49A	10.79A	13.57A	10.85A
Open-circuit Voltage (Voc)	42.05V	39.94V	42.22V	40.10V	42.38V	40.25V	42.54V	40.41V	42.71V	40.57V
Short-circuit Current (Isc)	13.99A	11.29A	14.07A	11.36A	14.15A	11.42A	14.23A	11.49A	14.31A	11.55A
Module Efficiency STC (%)	21.32%		21.55%		21.78%		22.01%		22.24%	
Operating Temperature(°C)	-40°C~+85°C									
Maximum system voltage	1000/1500VDC (IEC)									
Maximum series fuse rating	25A									
Power tolerance	0~+3%									
Temperature coefficients of Pmax	-0.30%/°C									
Temperature coefficients of Voc	-0.25%/°C									
Temperature coefficients of Isc	0.046%/°C									
Nominal operating cell temperature (NOCT)	45±2°C									

\*STC: ☀ Irradiance 1000W/m<sup>2</sup> ☀ Cell Temperature 25°C ☁ AM=1.5  
 NOCT: ☀ Irradiance 800W/m<sup>2</sup> ☀ Ambient Temperature 20°C ☁ AM=1.5 🌀 Wind Speed 1m/s

## LINEAR PERFORMANCE WARRANTY



12 Year Product Warranty

30 Year Linear Power Warranty

0.40% Annual Degradation Over 30 years

# Tiger Neo N-type

## 72HL4-(V)

### 555-575 Watt

#### MONO-FACIAL MODULE

#### N-Type

Positive power tolerance of 0~+3%

IEC61215(2016), IEC61730(2016)

ISO9001:2015: Quality Management System

ISO14001:2015: Environment Management System

ISO45001:2018

Occupational health and safety management systems

## Key Features



#### SMBB Technology

Better light trapping and current collection to improve module power output and reliability.



#### PID Resistance

Excellent Anti-PID performance guarantee via optimized mass-production process and materials control.



#### Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance.



#### Hot 2.0 Technology

The N-type module with Hot 2.0 technology has better reliability and lower LID/LETID.

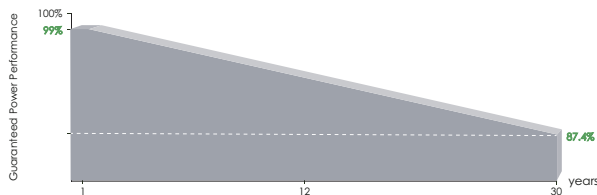


#### Enhanced Mechanical Load

Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).



## LINEAR PERFORMANCE WARRANTY

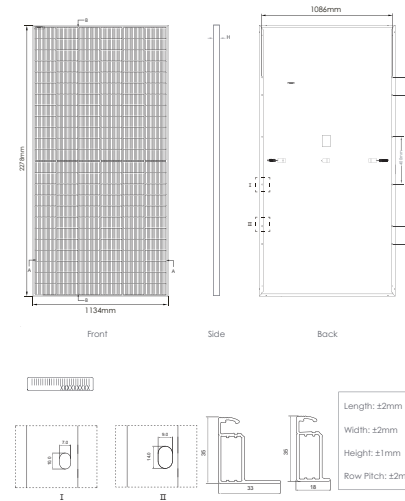


12 Year Product Warranty

30 Year Linear Power Warranty

0.40% Annual Degradation Over 30 years

## Engineering Drawings

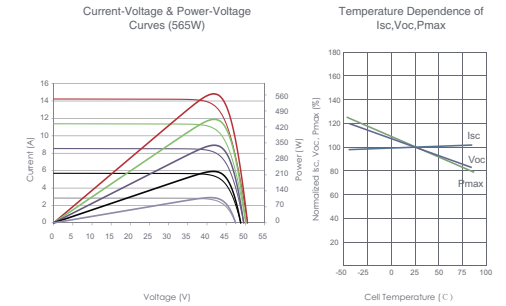


## Packaging Configuration

(Two pallets = One stack)

31pcs/pallets, 62pcs/stack, 620pcs/ 40'HQ Container

## Electrical Performance & Temperature Dependence



## Mechanical Characteristics

Cell Type	N type Mono-crystalline
No. of cells	144 (6×24)
Dimensions	2278×1134×35mm (89.69×44.65×1.38 inch)
Weight	28 kg (61.73 lbs)
Front Glass	3.2mm, Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Output Cables	TUV 1×4.0mm <sup>2</sup> (+): 400mm, (-): 200mm or Customized Length

## SPECIFICATIONS

Module Type	JKM555N-72HL4 JKM555N-72HL4-V		JKM560N-72HL4 JKM560N-72HL4-V		JKM565N-72HL4 JKM565N-72HL4-V		JKM570N-72HL4 JKM570N-72HL4-V		JKM575N-72HL4 JKM575N-72HL4-V	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	555Wp	417Wp	560Wp	421Wp	565Wp	425Wp	570Wp	429Wp	575Wp	432Wp
Maximum Power Voltage (Vmp)	41.64V	39.12V	41.77V	39.25V	41.92V	39.38V	42.07V	39.51V	42.22V	39.60V
Maximum Power Current (Imp)	13.33A	10.67A	13.41A	10.73A	13.48A	10.79A	13.55A	10.85A	13.62A	10.92A
Open-circuit Voltage (Voc)	50.34V	47.82V	50.47V	47.94V	50.60V	48.06V	50.74V	48.20V	50.88V	48.33V
Short-circuit Current (Isc)	14.07A	11.36A	14.15A	11.42A	14.23A	11.49A	14.31A	11.55A	14.39A	11.62A
Module Efficiency STC (%)	21.48%		21.68%		21.87%		22.07%		22.26%	
Operating Temperature (°C)	-40°C~+85°C									
Maximum system voltage	1000/1500VDC (IEC)									
Maximum series fuse rating	25A									
Power tolerance	0~+3%									
Temperature coefficients of Pmax	-0.30%/°C									
Temperature coefficients of Voc	-0.25%/°C									
Temperature coefficients of Isc	0.046%/°C									
Nominal operating cell temperature (NOCT)	45±2°C									

\*STC: ☀ Irradiance 1000W/m<sup>2</sup> 📱 Cell Temperature 25°C

NOCT: ☀ Irradiance 800W/m<sup>2</sup> 📱 Ambient Temperature 20°C

☁ AM=1.5

☁ AM=1.5

🌀 Wind Speed 1m/s

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Specifications included in this datasheet are subject to change without notice.

JKM555-575N-72HL4-(V)-F1-EN (IEC 2016)

# Tiger Neo N-type 72HL4-BDV 550-570 Watt BIFACIAL MODULE WITH DUAL GLASS

## N-Type

Positive power tolerance of 0~+3%

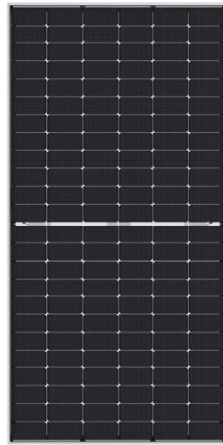
IEC61215(2016), IEC61730(2016)

ISO9001:2015: Quality Management System

ISO14001:2015: Environment Management System

ISO45001:2018

Occupational health and safety management systems



## Key Features



### SMBB Technology

Better light trapping and current collection to improve module power output and reliability.



### PID Resistance

Excellent Anti-PID performance guarantee via optimized mass-production process and materials control.



### Higher Power Output

Module power increases 5-25% generally, bringing significantly lower LCOE and higher IRR.



### Hot 2.0 Technology

The N-type module with Hot 2.0 technology has better reliability and lower LID/LETID.

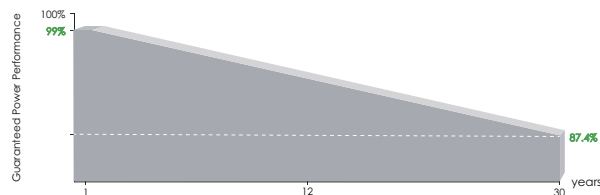


### Enhanced Mechanical Load

Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).



## LINEAR PERFORMANCE WARRANTY

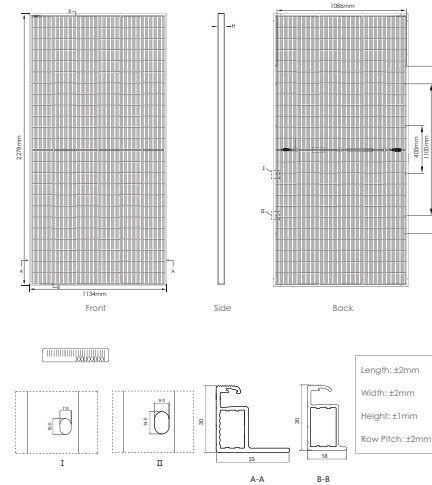


12 Year Product Warranty

30 Year Linear Power Warranty

0.40% Annual Degradation Over 30 years

## Engineering Drawings

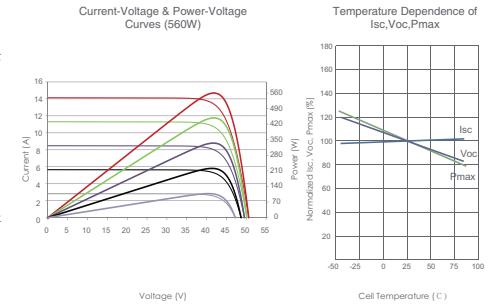


## Packaging Configuration

(Two pallets = One stack)

36pcs/pallets, 72pcs/stack, 720pcs/ 40'HQ Container

## Electrical Performance & Temperature Dependence



## Mechanical Characteristics

Cell Type	N type Mono-crystalline
No. of cells	144 (6×24)
Dimensions	2278×1134×30mm (89.69×44.65×1.18 inch)
Weight	32 kg (70.55 lbs)
Front Glass	2.0mm, Anti-Reflection Coating
Back Glass	2.0mm, Heat Strengthened Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Output Cables	TUV 1×4.0mm <sup>2</sup> (+): 400mm, (-): 200mm or Customized Length

## SPECIFICATIONS

Module Type	JKM550N-72HL4-BDV		JKM555N-72HL4-BDV		JKM560N-72HL4-BDV		JKM565N-72HL4-BDV		JKM570N-72HL4-BDV	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	550Wp	414Wp	555Wp	417Wp	560Wp	421Wp	565Wp	425Wp	570Wp	429Wp
Maximum Power Voltage (Vmp)	41.58V	39.13V	41.77V	39.26V	41.95V	39.39V	42.14V	39.52V	42.29V	39.65V
Maximum Power Current (Imp)	13.23A	10.57A	13.29A	10.63A	13.35A	10.69A	13.41A	10.75A	13.48A	10.81A
Open-circuit Voltage (Voc)	50.27V	47.75V	50.47V	47.94V	50.67V	48.13V	50.87V	48.32V	51.07V	48.51V
Short-circuit Current (Isc)	14.01A	11.31A	14.07A	11.36A	14.13A	11.41A	14.19A	11.46A	14.25A	11.50A
Module Efficiency STC (%)	21.29%		21.48%		21.68%		21.87%		22.07%	
Operating Temperature(°C)	-40°C~+85°C									
Maximum system voltage	1500VDC (IEC)									
Maximum series fuse rating	30A									
Power tolerance	0~+3%									
Temperature coefficients of Pmax	-0.30%/°C									
Temperature coefficients of Voc	-0.25%/°C									
Temperature coefficients of Isc	0.046%/°C									
Nominal operating cell temperature (NOCT)	45±2°C									
Refer. Bifacial Factor	80±5%									

## BIFACIAL OUTPUT-REAR SIDE POWER GAIN

5%	Maximum Power (Pmax)	578Wp	583Wp	588Wp	593Wp	599Wp
	Module Efficiency STC (%)	22.36%	22.56%	22.77%	22.97%	23.17%
15%	Maximum Power (Pmax)	633Wp	638Wp	644Wp	650Wp	656Wp
	Module Efficiency STC (%)	24.48%	24.71%	24.93%	25.15%	25.37%
25%	Maximum Power (Pmax)	688Wp	694Wp	700Wp	706Wp	713Wp
	Module Efficiency STC (%)	26.61%	26.86%	27.10%	27.34%	27.58%

\*STC: ☀ Irradiance 1000W/m<sup>2</sup>

📏 Cell Temperature 25°C

☁ AM=1.5

NOCT: ☀ Irradiance 800W/m<sup>2</sup>

📏 Ambient Temperature 20°C

☁ AM=1.5

🌀 Wind Speed 1m/s



# Tiger Neo N-type

## 78HL4-(V)

### 595-615 Watt

#### MONO-FACIAL MODULE

#### N-Type

Positive power tolerance of 0~+3%

IEC61215(2016), IEC61730(2016)

ISO9001:2015: Quality Management System

ISO14001:2015: Environment Management System

ISO45001:2018

Occupational health and safety management systems

## Key Features



#### SMBB Technology

Better light trapping and current collection to improve module power output and reliability.



#### PID Resistance

Excellent Anti-PID performance guarantee via optimized mass-production process and materials control.



#### Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance.



#### Hot 2.0 Technology

The N-type module with Hot 2.0 technology has better reliability and lower LID/LETID.

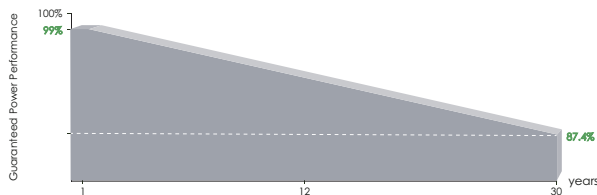


#### Enhanced Mechanical Load

Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).



## LINEAR PERFORMANCE WARRANTY

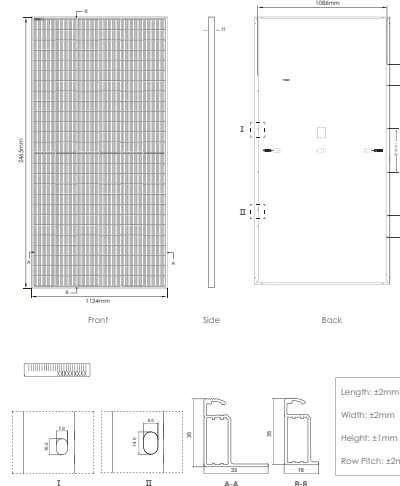


12 Year Product Warranty

30 Year Linear Power Warranty

0.40% Annual Degradation Over 30 years

## Engineering Drawings

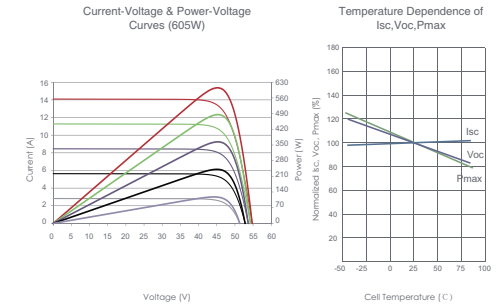


## Packaging Configuration

(Two pallets = One stack)

31pcs/pallets, 62pcs/stack, 496pcs/ 40'HQ Container

## Electrical Performance & Temperature Dependence



## Mechanical Characteristics

Cell Type	N type Mono-crystalline
No. of cells	156 (2×78)
Dimensions	2465×1134×35mm (97.05×44.65×1.38 inch)
Weight	30.6 kg (67.46 lbs)
Front Glass	3.2mm Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Output Cables	TUV 1×4.0mm <sup>2</sup> (+): 400mm, (-): 200mm or Customized Length

## SPECIFICATIONS

Module Type	JKM595N-78HL4 JKM595N-78HL4-V		JKM600N-78HL4 JKM600N-78HL4-V		JKM605N-78HL4 JKM605N-78HL4-V		JKM610N-78HL4 JKM610N-78HL4-V		JKM615N-78HL4 JKM615N-78HL4-V	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	595Wp	447Wp	600Wp	451Wp	605Wp	455Wp	610Wp	459Wp	615Wp	462Wp
Maximum Power Voltage (Vmp)	45.29V	41.93V	45.39V	42.05V	45.49V	42.16V	45.59V	42.28V	45.69V	42.39V
Maximum Power Current (Imp)	13.14A	10.67A	13.22A	10.73A	13.30A	10.79A	13.38A	10.85A	13.46A	10.91A
Open-circuit Voltage (Voc)	54.80V	52.05V	54.95V	52.20V	55.10V	52.34V	55.25V	52.48V	55.40V	52.62V
Short-circuit Current (Isc)	13.90A	11.22A	13.97A	11.28A	14.04A	11.34A	14.11A	11.39A	14.18A	11.45A
Module Efficiency STC (%)	21.29%		21.46%		21.64%		21.82%		22.00%	
Operating Temperature(°C)	-40°C~+85°C									
Maximum system voltage	1000/1500VDC (IEC)									
Maximum series fuse rating	30A									
Power tolerance	0~+3%									
Temperature coefficients of Pmax	-0.30%/°C									
Temperature coefficients of Voc	-0.25%/°C									
Temperature coefficients of Isc	0.046%/°C									
Nominal operating cell temperature (NOCT)	45±2°C									

\*STC: ☀ Irradiance 1000W/m<sup>2</sup> 📦 Cell Temperature 25°C

NOCT: ☀ Irradiance 800W/m<sup>2</sup> 📦 Ambient Temperature 20°C

☁ AM=1.5

☁ AM=1.5

🌀 Wind Speed 1m/s

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Specifications included in this datasheet are subject to change without notice.

JKM595-615N-78HL4-(V)-F1-EN (IEC 2016)

# Tiger Neo N-type

## 78HL4-BDV

### 590-610 Watt

BIFACIAL MODULE WITH  
DUAL GLASS

#### N-Type

Positive power tolerance of 0~+3%

IEC61215(2016), IEC61730(2016)

ISO9001:2015: Quality Management System

ISO14001:2015: Environment Management System

ISO45001:2018  
Occupational health and safety management systems

## Key Features



#### SMBB Technology

Better light trapping and current collection to improve module power output and reliability.



#### PID Resistance

Excellent Anti-PID performance guarantee via optimized mass-production process and materials control.



#### Higher Power Output

Module power increases 5-25% generally, bringing significantly lower LCOE and higher IRR.



#### Hot 2.0 Technology

The N-type module with Hot 2.0 technology has better reliability and lower LID/LETID.

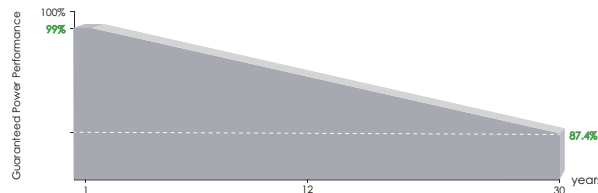


#### Enhanced Mechanical Load

Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).



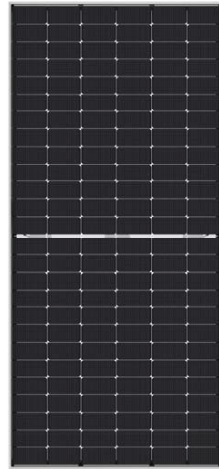
## LINEAR PERFORMANCE WARRANTY



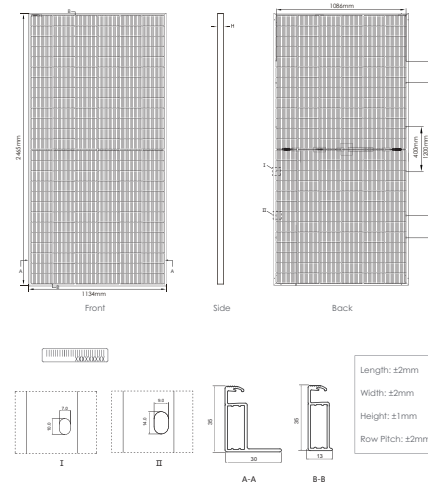
12 Year Product Warranty

30 Year Linear Power Warranty

0.40% Annual Degradation Over 30 years



## Engineering Drawings

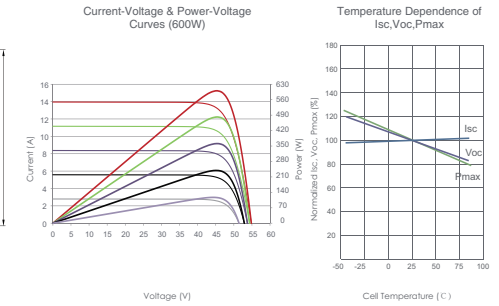


## Packaging Configuration

(Two pallets = One stack)

31pcs/pallets, 62pcs/stack, 496pcs/ 40'HQ Container

## Electrical Performance & Temperature Dependence



## Mechanical Characteristics

Cell Type	N type Mono-crystalline
No. of cells	156 (2×78)
Dimensions	2465×1134×35mm (97.05×44.65×1.38 inch)
Weight	34.6kg (76.38 lbs)
Front Glass	2.0mm, Anti-Reflection Coating
Back Glass	2.0mm, Heat Strengthened Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Output Cables	TUV 1×4.0mm <sup>2</sup> (+): 400mm, (-): 200mm or Customized Length

## SPECIFICATIONS

Module Type	JKM590N-78HL4-BDV		JKM595N-78HL4-BDV		JKM600N-78HL4-BDV		JKM605N-78HL4-BDV		JKM610N-78HL4-BDV	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	590Wp	444Wp	595Wp	447Wp	600Wp	451Wp	605Wp	455Wp	610Wp	459Wp
Maximum Power Voltage (Vmp)	44.91V	41.89V	45.08V	42.00V	45.25V	42.12V	45.42V	42.23V	45.60V	42.35V
Maximum Power Current (Imp)	13.14A	10.59A	13.20A	10.65A	13.26A	10.71A	13.32A	10.77A	13.38A	10.83A
Open-circuit Voltage (Voc)	54.76V	52.02V	54.90V	52.15V	55.03V	52.27V	55.17V	52.41V	55.31V	52.54V
Short-circuit Current (Isc)	13.71A	11.07A	13.79A	11.13A	13.87A	11.20A	13.95A	11.26A	14.03A	11.33A
Module Efficiency STC (%)	21.11%		21.29%		21.46%		21.64%		21.82%	
Operating Temperature(°C)	-40°C~+85°C									
Maximum system voltage	1500VDC (IEC)									
Maximum series fuse rating	30A									
Power tolerance	0~+3%									
Temperature coefficients of Pmax	-0.30%/°C									
Temperature coefficients of Voc	-0.25%/°C									
Temperature coefficients of Isc	0.046%/°C									
Nominal operating cell temperature (NOCT)	45±2°C									
Refer. Bifacial Factor	80±5%									

## BIFACIAL OUTPUT-REAR SIDE POWER GAIN

5%	Maximum Power (Pmax)	620Wp	625Wp	630Wp	635Wp	641Wp
	Module Efficiency STC (%)	22.16%	22.35%	22.54%	22.73%	22.91%
15%	Maximum Power (Pmax)	679Wp	684Wp	690Wp	696Wp	702Wp
	Module Efficiency STC (%)	24.27%	24.48%	24.68%	24.89%	25.10%
25%	Maximum Power (Pmax)	738Wp	744Wp	750Wp	756Wp	763Wp
	Module Efficiency STC (%)	26.38%	26.61%	26.83%	27.05%	27.28%

\*STC: ☀ Irradiance 1000W/m<sup>2</sup>

🔥 Cell Temperature 25°C

☁ AM=1.5

NOCT: ☀ Irradiance 800W/m<sup>2</sup>

🔥 Ambient Temperature 20°C

☁ AM=1.5

🌀 Wind Speed 1m/s



**Support On  
& Off grid  
parallel use**

## SUNTANK

**PV+ Battery  
storage  
system+ PCS**

**Perfect  
Service System**

Jinko Smart Storage System is a state-of-the-art home energy management system designed for owners who plan to implement home energy management. It provides a comprehensive solution for your home's green electricity consumption, reducing energy usage costs, and maximizing the self-utilization rate of power generation. At the same time, Jinko's smart storage system provides AC-coupling and DC-coupling charging and discharging methods to realize multi-directional energy interaction between photovoltaic modules, batteries and the grid power.

# JKS-JP-RESS-6/9/12kWh



## Key Figures



Passive cooling, low noise level, ideal for home use



Wide battery voltage range



Uninterruptible power supply (UPS)  
Intelligent battery management function



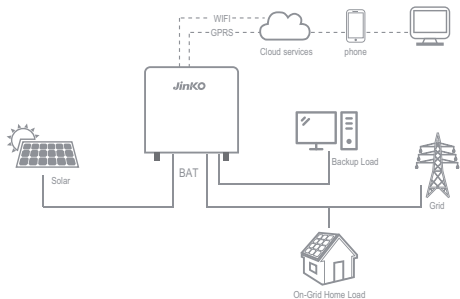
Monitoring inverters freely via computers  
or mobile phones



Capable of being grid-interactive or grid-independent



Battery max. discharge power up to 8 kW



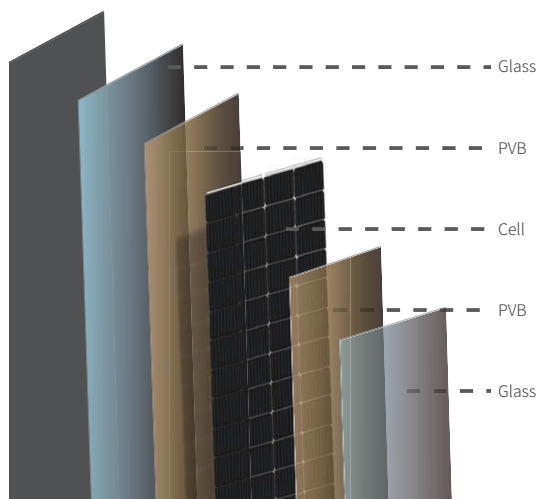
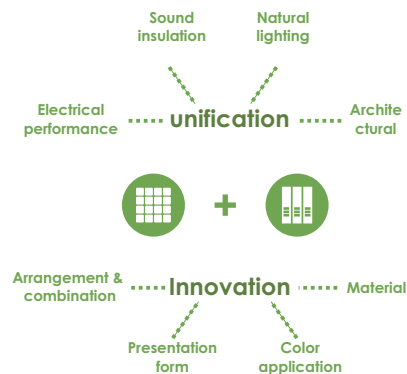
## SPECIFICATIONS

System capacity		JKS-JP-RESS-6kWh	JKS-JP-RESS-9kWh	JKS-JP-RESS-12kWh
PV INPUT	Maximum Recommended PV Module Power[W]	12000		
	Maximum Allowable Voltage Input[V]	450		
	Input Voltage Range[V]	50-450		
	Rated Input Voltage[V]	330		
	Maximum Input Current[A]	14/14/14		
	MPPT Voltage Range[V]	70-430		
	Starting Voltage(Screen)[V]	70		
	Number of MPPT Channel	3		
	Number of MPPT Interfaces per Channel	1		
BATTERY	Type of Battery	Lithium Iron Phosphate		
	Battery Rated Capacity[kWh]	6.1	9.2	12.3
	Battery Voltage Range [V]	180-232	270-348	360-450
	Rated Battery Voltage [V]	204.8	307.2	409.6
	Maximum Charge and Discharge Current[A]	30		
	Grid Type / Rated AC Voltage[V]	1Φ 3W 202V		
AC OUTPUT	Rated Grid Frequency[Hz]	50/60		
	Rated Output[W]	5900		
	Maximum Output Apparent Power[VA]	5900		
	Rated Output Working Current[A]	29.2		
	Rated Power Input[W]	7900		
	Maximum Input Apparent Power[VA]	7900		
	Rated Input Working Current[A]	39		
	Maximum Input Operating Current[A]	39		
	Initial Power Factor	0.95		
EPS OUTPUT	Displacement Power Factor	0.8 leading to 0.8 lagging		
	EPS Rated Voltage [V]	1Φ 3W 202V		
	EPS Rated Frequency[Hz]	50/60		
	EPS Rated Power[VA]	5900 (2950/2950)		
	EPS Peak Power[W]	5900~8000, 10s		
EFFICIENCY	Maximum Efficiency of PV to AC	96.0%		
	Maximum Efficiency of Battery to AC	94.6%		
MACHINE ENVIRONMENT	Level of Protection	IP65		
	Ground Protection level	Class I		
	Operating Temperature Range of Inverter [ C ]	-25~+60° C (load down above +45°C)		
	Battery Operating Temperature Range[ C ]	-10°C~55°C(charging 0°C~55°C, discharging -10°C~55°C; load down above +35°C)		
	Humidity [%]	0~100 (condensing)		
	Altitude [m]	<2000		
	Noise (Typical value) [dB]	<30 (In the fan operation<45)		
	Heat-dissipating Method	Forced air cooling		
OTHERS	Insulation Structure	Non-isolated		
	External Communication Port	Remote control RS 485, BMS CAN/RS485, Indoor LCD (RS485), Pocket LAN, CT*2, Dry contacts (1 input and 1 output), Indicator light/ Emergency switch		
	Warranty	15 years		
	Regulation	JIS C 4412-1/JIS C-8715-2,JIS C 4411, Grid Regulation refer to JEAC9701-2019		
	Grid Type / Rated AC Voltage[V]	1Φ 3W 202V		
DIMENSION AND WEIGHT	Cabinet Size(W×D×H) [mm]	1200×360×1300		
	Inverter Net Weight [kg]	31		
	Battery Control Net Weight [kg]	7.5*1		
	Battery Subordinate Control Net Weight [kg]	34.4*2	34.4*3	34.4*4



# BIPV Introduction

The photovoltaic power generation module panel and other electrical equipment are directly installed on the roof or Building facade.



# BIPV Product: Jinko Curtain Wall

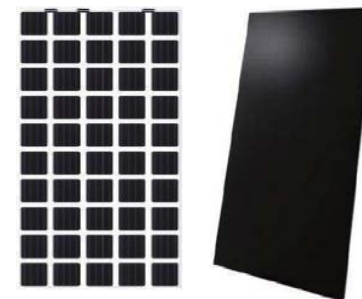
Jinko Transparent + All Black Curtain Wall Series

## ◆ Comprehensive scene coverage

meet the needs of most commercial and public buildings;

## ◆ Adjustable light transmittance

Light transmittance can be adjusted according to application scenes, considering both the beauty and performance;



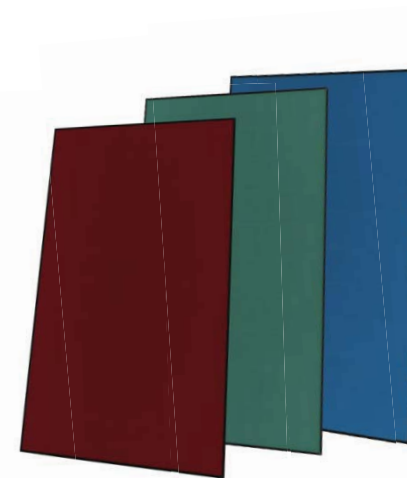
Jinko colorful curtain wall series

## ◆ Abundant color options

Rich colors, more in line with modern architectural aesthetics;

## ◆ High freedom of style

The size, shape and power can be customized according to the customer's demand and its application area;



# BIPV color steel tile module

## 165-175 Watt

### Integrated BIPV

Positive power tolerance of 0~+3%

IEC61215(2016), IEC61730(2016)

ISO9001:2015: Quality Management System

ISO14001:2015: Environment Management System

ISO45001:2018

Occupational health and safety management systems



## Key Features



### Higher Water Resistance

Frame-less dual glass BIPV modules and the main gutter form a whole drainage system, with strong waterproof ability.



### Higher Reliability

Dual glass structure guarantees lower crack and no diffusivity, also better corrosion resistance and less risk in transportation



### Power Generated Building

Integrated power generator can meet the requirements for energy-saving buildings



### Higher Efficiency

Higher-density cell arrangement can put more cells per unit area and achieve higher module efficiency



### Higher Safety

Double layers tempered glass with class A of fireproofing; Better wind load, heat resistance and frost resistance

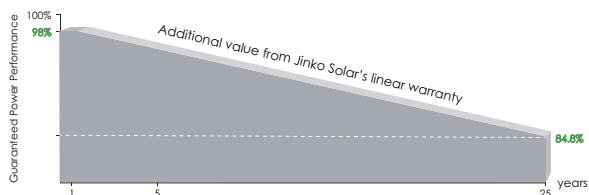


### Building Integrated

Meet the requirements of building safety, can be used as building unit for integrated installation



## LINEAR PERFORMANCE WARRANTY



**12** Year Product Warranty

**25** Year Linear Power Warranty

**0.55%** Annual Degradation Over 25 years

## Engineering Drawings



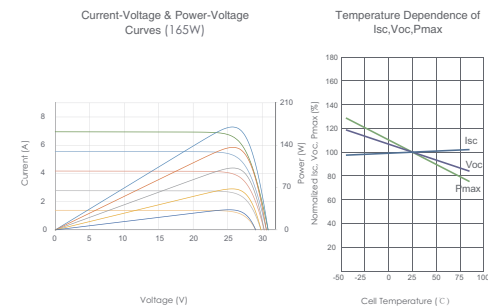
Length: ±2mm  
Width: ±2mm  
Height: ±1mm  
Row Pitch: ±2mm

## Packaging Configuration

(Two pallets = One stack)

32pcs/pallet, 16pcs/stack, 512pcs/40HQ Container

## Electrical Performance & Temperature Dependence



## Mechanical Characteristics

Cell Type	N-Type Cells
No. of Half-cells	45(15x3)
Dimensions	1420×590×5mm (55.91×23.23×0.20 inch)
Weight	10.5kg(23.15lbs)
Front Glass	2.0mm+2.0mm heat strengthened glass
Back Glass	2.0mm+2.0mm heat strengthened glass
Junction Box	IP68Rated
Output Cables	TUV 1x4.0mm <sup>2</sup> (+)290mm, (-)145mm or Customized Length

## SPECIFICATIONS

Module Type	JKBS165N-22.5HL4-BDVP		JKBS170N-22.5HL4-BDVP		JKBS175N-22.5HL4-BDVP	
	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	165Wp	123Wp	170Wp	127Wp	175Wp	130Wp
Maximum Power Voltage (Vmp)	25.66V	23.79V	25.88V	24.01V	26.08V	24.21V
Maximum Power Current (Imp)	6.43A	5.17A	6.57A	5.28A	6.71A	5.39A
Open-circuit Voltage (Voc)	30.65V	28.93V	30.87V	29.14V	31.07V	29.32V
Short-circuit Current (Isc)	6.81A	5.50A	6.95A	5.61A	7.09A	5.73A
Module Efficiency STC (%)	19.69%		20.30%		20.89%	
Operating Temperature(°C)	-40°C~+85°C					
Maximum system voltage	1500VDC (IEC)					
Maximum series fuse rating	30A					
Power tolerance	0~+3%					
Temperature coefficients of Pmax	-0.35%/°C					
Temperature coefficients of Voc	-0.29%/°C					
Temperature coefficients of Isc	0.048%/°C					
Nominal operating cell temperature (NOCT)	45±2°C					

\*STC: Irradiance 1000W/m<sup>2</sup> Cell Temperature 25°C AM=1.5

NOCT: Irradiance 800W/m<sup>2</sup> Ambient Temperature 20°C AM=1.5 Wind Speed 1m/s

\* Power measurement tolerance: ±3%