

# Product Catalogue 2023

*Building Your Trust in Solar*

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



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# Table of Contents

1. Jinko's Brand Advantages
2. N-Type Technology
3. JinkoSolar's Products
  - a. Tiger Neo Series
  - b. Tiger Pro Series
  - c. BIPV
  - d. ESS



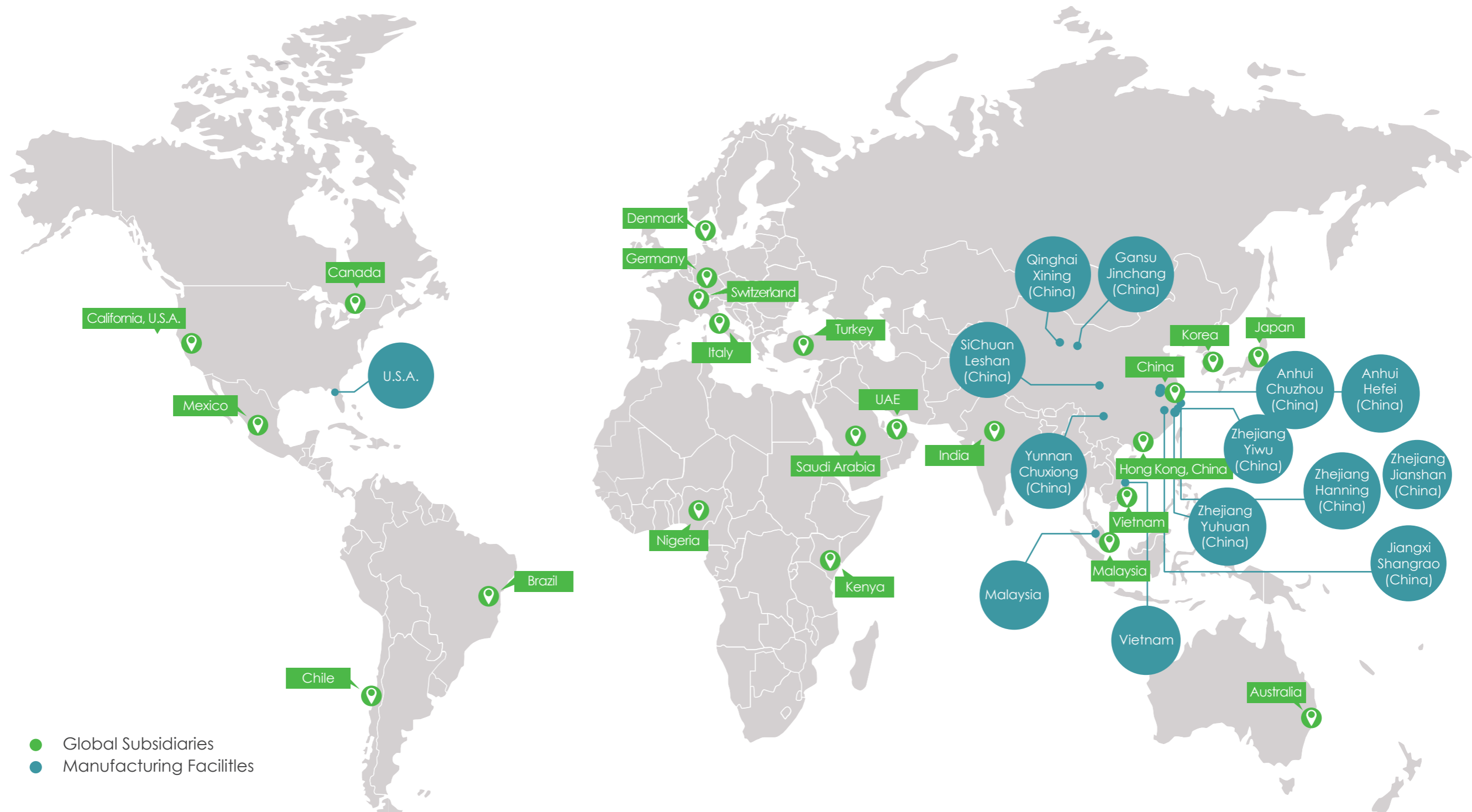


# Leading Globalization Competence

Jinko Solar Co., Ltd. (referred to as "JinkoSolar," stock code: 688223) is a globally renowned and highly innovative solar technology company. JinkoSolar's products serve over 180 countries and regions worldwide, catering to more than 3,000 customers. As of the fourth quarter of 2023, the cumulative module shipments of the company have exceeded 200 GW.

JinkoSolar pioneered the "vertical integration" capacity from silicon wafer and cell to module production in the industry. It owns 14 globalized manufacturing bases in China, Malaysia, Vietnam, and the United States. By the end of 2023, the company's monocrystalline silicon wafer, cell and module production capacity will reach 85GW, 90GW and 110GW respectively, of which the N-type production capacity will account for more than 75%, and the N-type production capacity scale is leading the industry. With a workforce of over 2,000 research and development professionals, JinkoSolar has earned numerous accolades including "National Enterprise Technology Center," "National Technological Innovation Demonstration Enterprise," and "Manufacturing Single Champion Enterprise". The company has played a leading role in establishing multiple international and domestic industry standards such as IEC, continuously expanding the diversified application scenarios of photovoltaic technology. It actively develops building integration photovoltaic, photovoltaic hydrogen production, energy storage system, striving to create a clean energy ecosystem.

Jinko Solar was listed on the STAR Board of the Shanghai Stock Exchange in 2022, and JinkoSolar Holding Co., Ltd., its indirect controlling shareholder, was listed on the New York Stock Exchange in 2010.



- Global Subsidiaries
- Manufacturing Facilities

# R&D Key Figures

JinkoSolar has invested significant assets in research and development to lead the industry by upgrading technology to provide efficient and competitive industry products to customers worldwide

**25**  
World Records

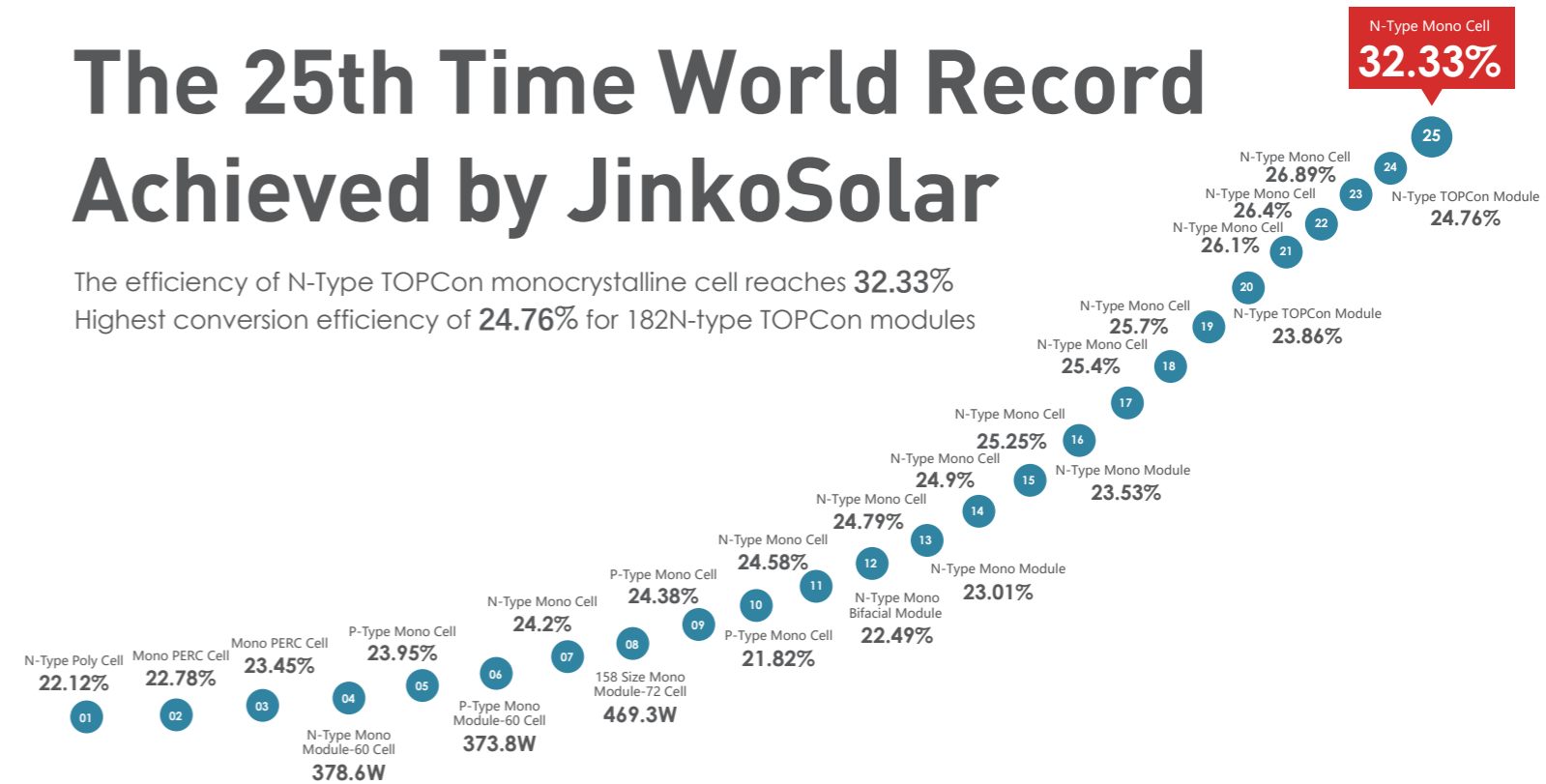
Number of  
**1702** Patents

R&D Team  
**2000+**

R&D investment in 2022  
**5.615** Billion RMB

# The 25th Time World Record Achieved by JinkoSolar

The efficiency of N-Type TOPCon monocrystalline cell reaches **32.33%**  
Highest conversion efficiency of **24.76%** for 182N-type TOPCon modules



# Robust Quality Certified

Awarded the "Quality China" award by TUV Rheinland for outdoor power generation of single-sided modules

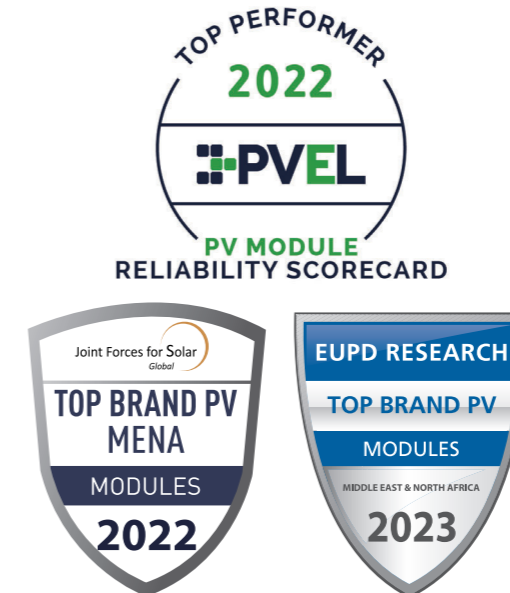
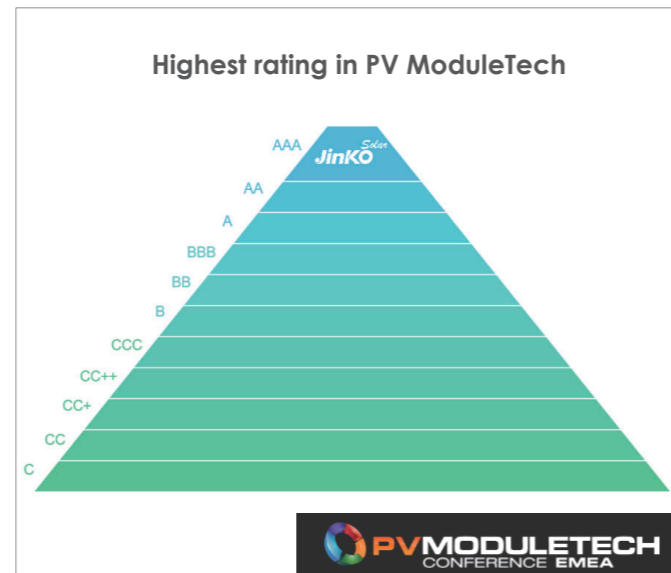
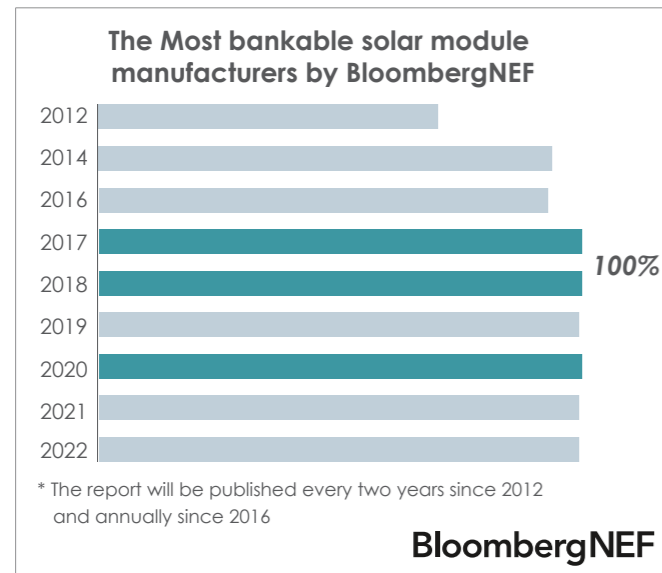
Rated "Top Performance" by PVEL/DNV GL PV Module Reliability Scorecard for eight consecutive years

Awarded the "Top PV Brand" badge for the Middle East and North Africa region by EUPD Research 2023

Winner of the RETC 2022 PV Module "Top Performer Award"

# Long-term Bankability

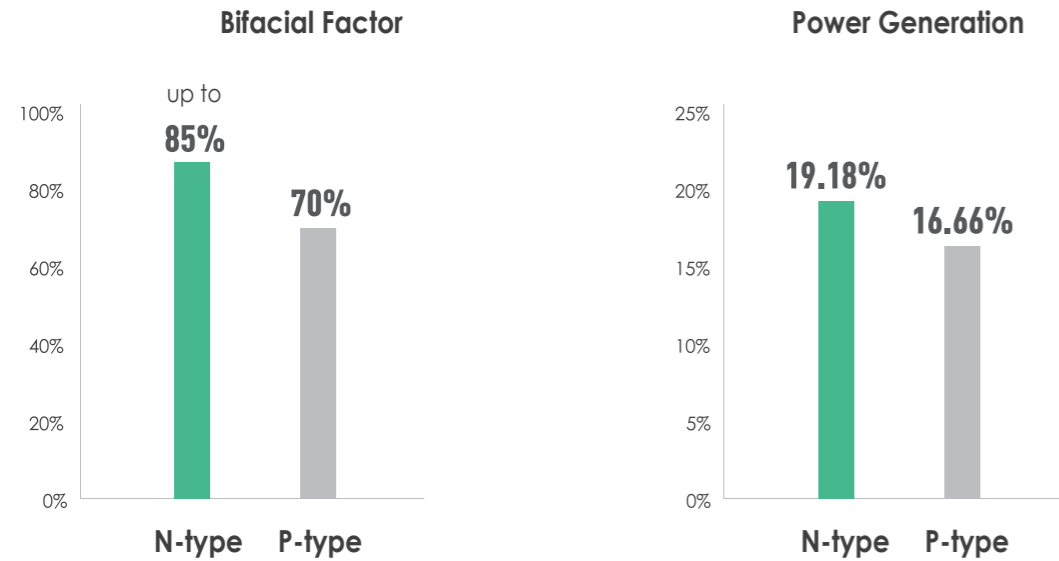
JinkoSolar has been named one of the most bankable PV module brands by Bloomberg New Energy Finance for 9 consecutive years since 2012. JinkoSolar has been awarded AAA rating in the PV ModuleTech Financeability Rating Report.





# N-Type Technology

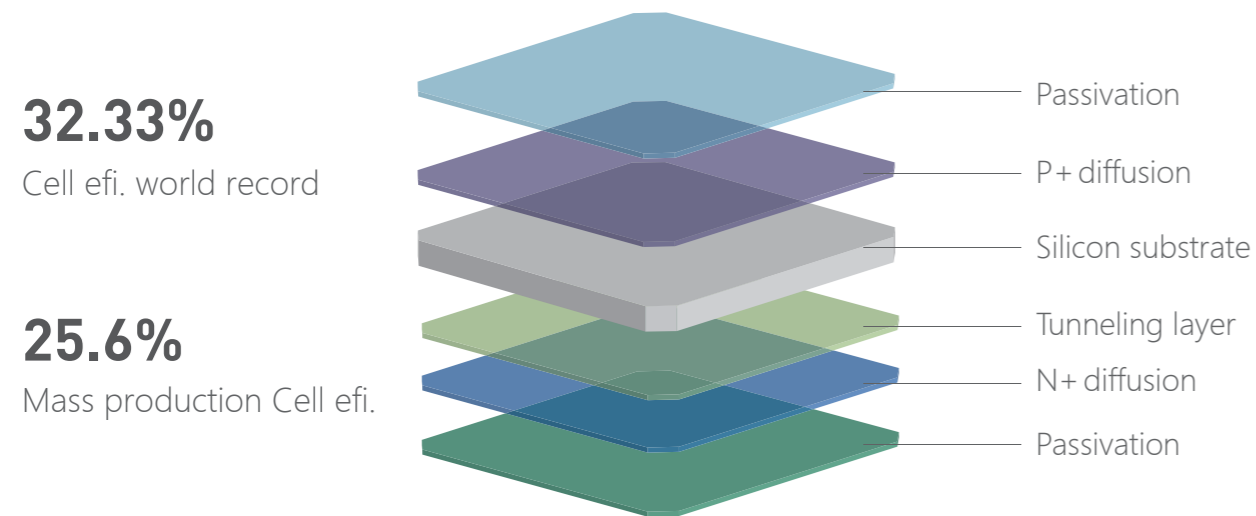
Due to the different doping technology of N-type, it has better performance in degradation compared to P-type products. In addition, the significant improvement of the bifacial factor and the optimization of the operating temperature bring higher yield gain. The LCOE is significantly lower than that of conventional P-type products.



\* Module test results, Sandy, 2P tracking stand, Hainan Province, China

# HOT 2.0 Technology

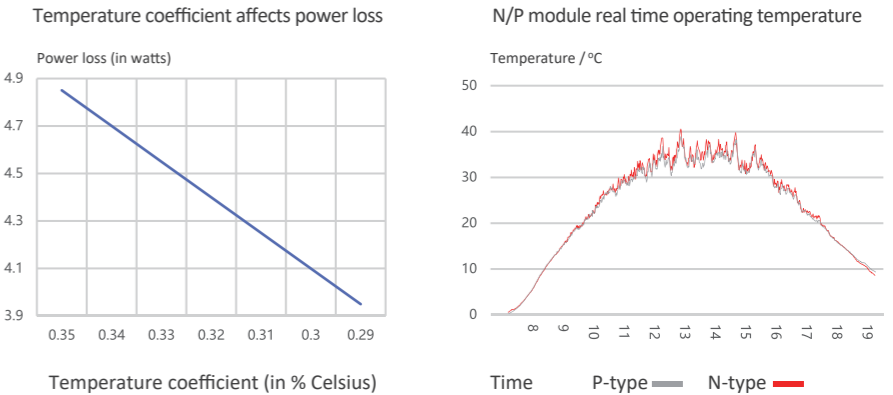
The efficient passivation contact technology is applied in HOT 2.0 cells, which updates the Micro-nano tunneling through the oxide layer and carrier selective lamination of microcrystalline silicon thin films on the rear side. This advanced structure contributes to better passivation performance and 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 25.1% and has a broad application prospect in the near future.



# Lower Temperature Coefficient

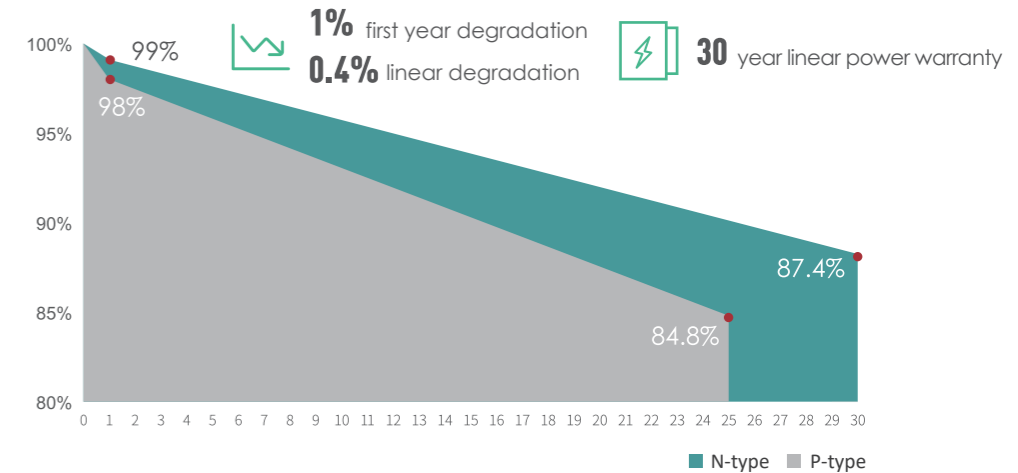
With a temperature coefficient of  $-0.29\%/^{\circ}\text{C}$ , compared to  $-0.35\%/^{\circ}\text{C}$  for P-type modules, N-type TOPCon technology is particularly effective in generating power in high temperature environments.

- Output power decreases with increasing temperature, JinkoSolar N-type temperature coefficient is better than PERC (0.9% improvement on average)
- Tiger Neo's average daily operating temperature is lower than PERC's ( $<1^{\circ}\text{C}$ ) for the same external environment, resulting in lower heat loss.
- Tiger Neo brings more power generation in high temperature areas (+2% compared to P-type)



# Better Quality Warranty

Compared with conventional PERC modules, the power warranty of N-type modules is up to 30 years, and the first-year degradation is less than 1%, which guarantees that the output power will not be less than 87.40% of the original output power after 30 years.



# Higher Bifacial Factor

Compared to the 70% bifacial factor of conventional PERC modules, JinkoSolar N-Type TOPCon modules have an optimized bifacial factor of up to 85%. According to the theoretical formula, under standard operating conditions and average ground reflectivity, the power generation of conventional PERC modules due to bifacial factor is about 9.45%. The maximum 15% increase of Tiger Neo module in bifacial factor results in a bifacial gain of about 2% on top of the original.

### Comparison of yield gain due to bifacial factor increase:

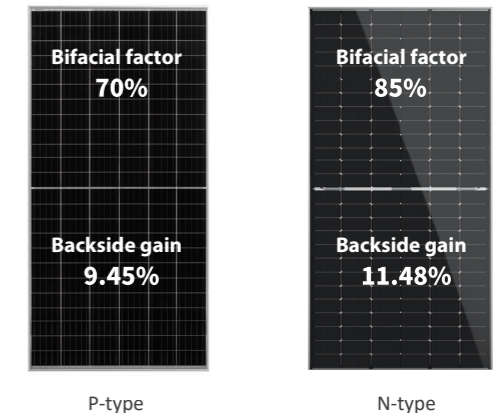
$P\text{-type combined power} = P \text{ frontal} * (1 + BSI * Bifi)$

PERC:  $BSI * Bifi$  (70%)  $\sim 9.45\%$

TOPCon:  $BSI * Bifi$  (85%)  $\sim 11.48\%$

(depends on actual irradiation and ground reflectance)

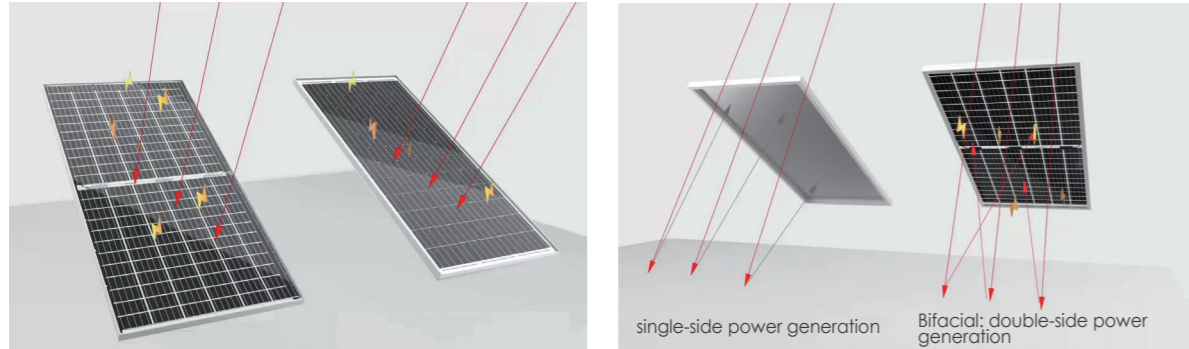
\*Bifi: Module bifacial rate  
\*BSI: Bifacial stress ambient irradiation coefficient





# Bifacial Technology

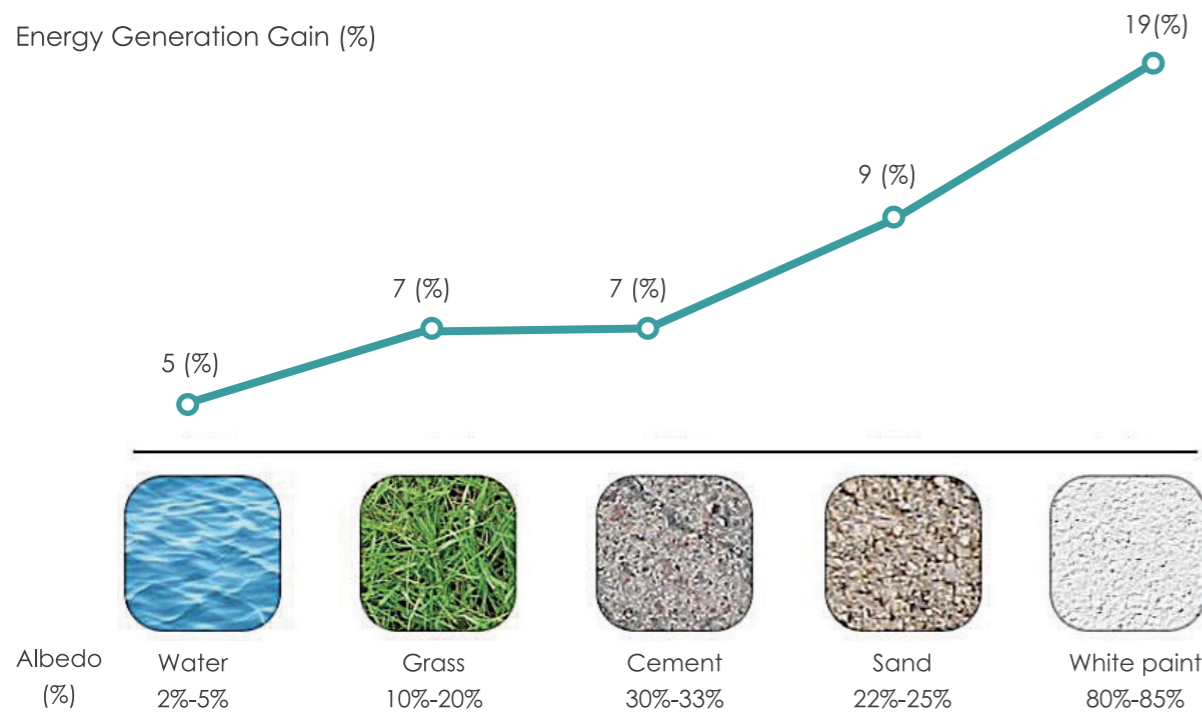
Bifacial technology brings more power generation



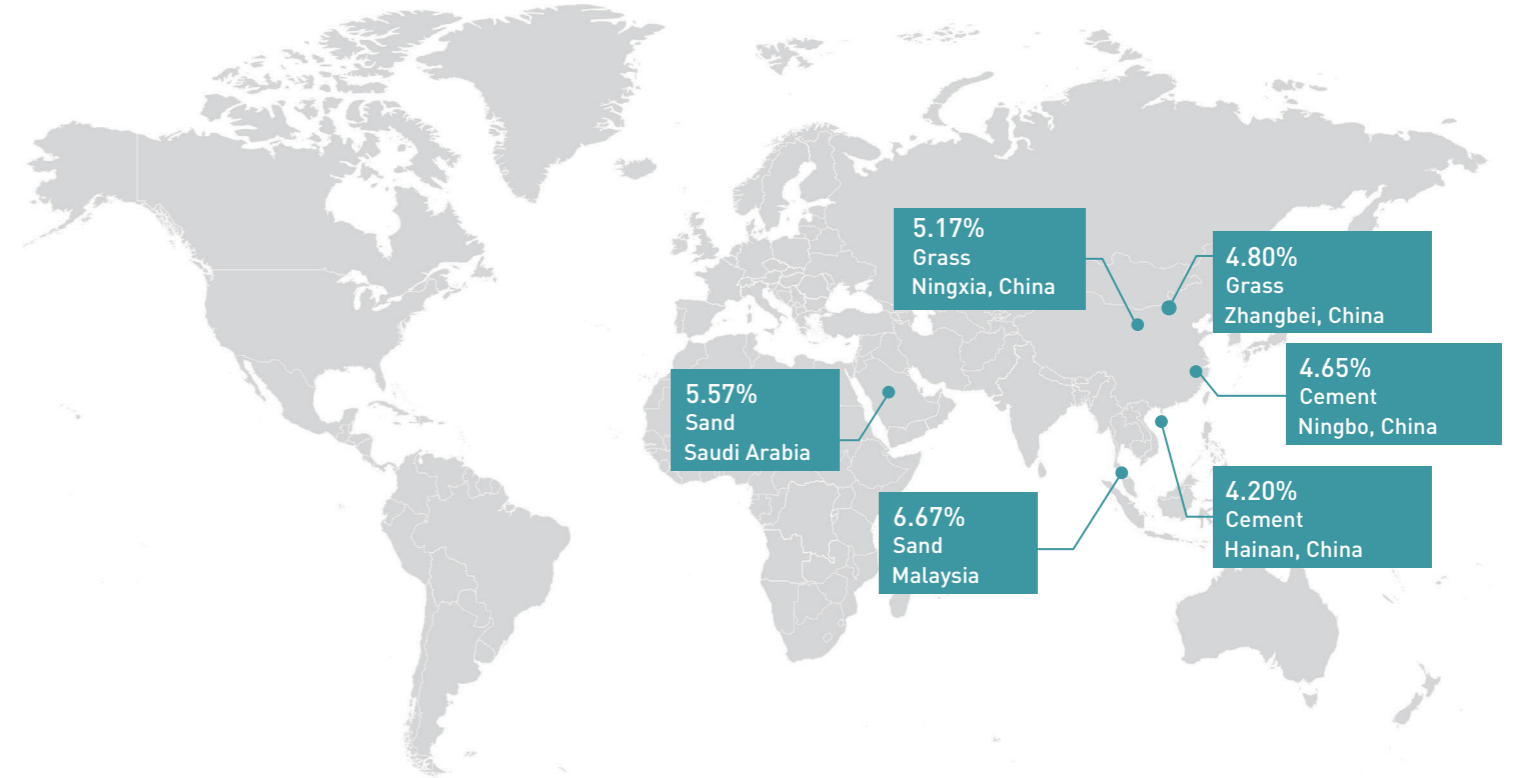
↑ Up to 25% power gain depending on albedo and PV system design

## Practical Yield Gain:

Energy Generation Gain (%)



# Project data Support — Tiger Neo global field project



Location	Test Performer	Types of Ground	Type of Installation	Module Type	Test Type	Test Duration	Bifacial Gain
Ningxia, China	CPVT	Grass	Fixed	182-72N-Dual Glass 182-72P-Dual Glass	String	2022.9.01 - 2023.9.30	5.17%
Zhangbei, China	CGC	Grass	Tracker	182-72N-Dual Glass 182-72P-Dual Glass	String	2022.7.11 - 2023.9.30	4.80%
Ningbo, China	CAS	Cement	Tracker	182-72N-Dual Glass 182-72P-Dual Glass	String	2022.6.26 - 2023.9.30	4.65%
Hainan, China	CGC	Cement	Fixed	182-72N-Dual Glass 182-72P-Dual Glass	String	2022.8.01 - 2023.9.30	4.20%
Saudi Arabia	TUV Rheinland	Sand	Fixed	182-72N-Dual Glass 182-72P-Dual Glass 210-72P-Dual Glass	Module	2022.6.01 - 2022.12.31	5.57%
Malaysia	TUV Nord	Sand	Fixed	182-72N-Dual Glass 182-72P-Dual Glass 210-72P-Dual Glass	Module	2022.12.01 - 2023.3.31	6.67%



# TIGER Neo Series



Designed for  
residential   
commercial   
Utility

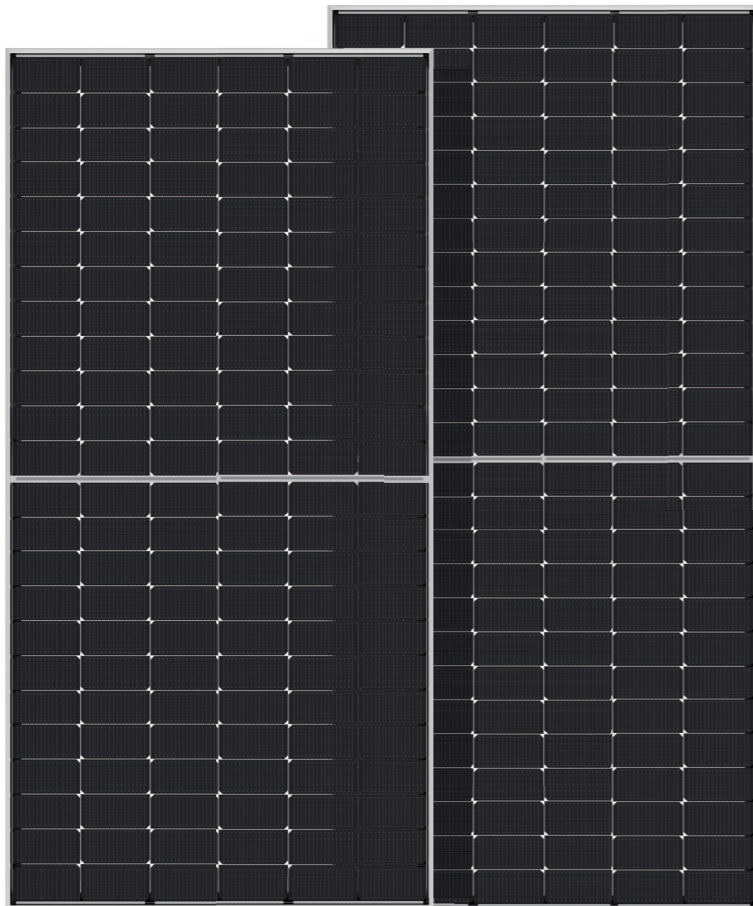
## Completes System and Product Certifications

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



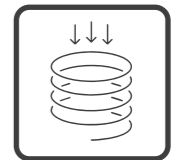
Higher Lifetime Power Yield



Saving BOS Cost



Higher power output



Severe Weather Resilience



Low-light Performance



Durability Against Extreme Environmental Conditions



High Efficiency

Product	# of cells	Size/Weight
JKM565-585N-72HL4-(V)	144 cells (6×24)	2278×1134×35mm / 28.0kg
JKM560-580N-72HL4-BDV	144 cells (6×24)	2278×1134×30mm / 32.0kg
JKM600-620N-66HL4M-BDV	132 cells (2×66)	2382×1134×30mm / 33.4kg
JKM615-635N-78HL4-BDV	156 cells (2×78)	2465×1134×30mm / 34.6kg



# Tiger Neo N-type 72HL4-(V) 565-585 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.



### Hot 2.0 Technology

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



### PID Resistance

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



### Enhanced Mechanical Load

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

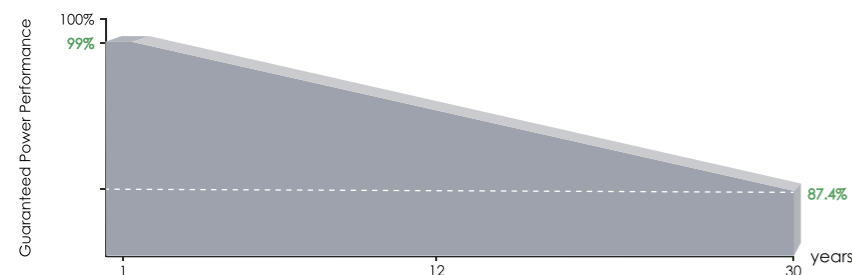


### Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance.



## LINEAR PERFORMANCE WARRANTY

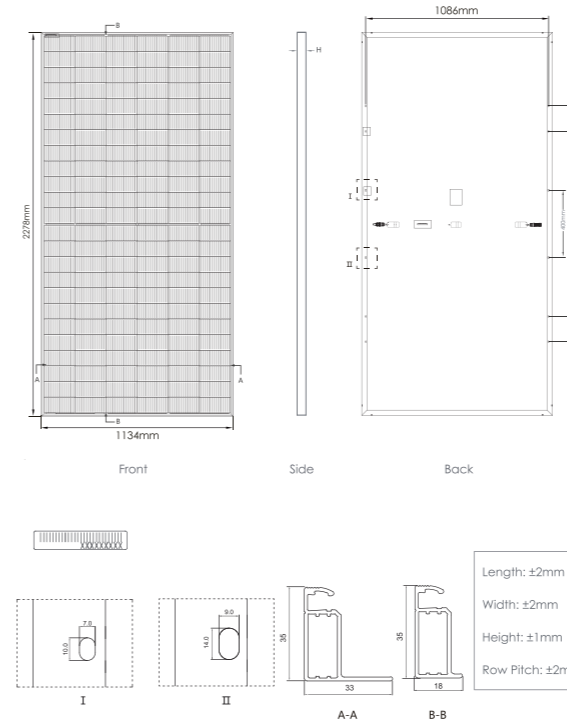


12 Year Product Warranty

30 Year Linear Power Warranty

0.40% Annual Degradation Over 30 years

## Engineering Drawings

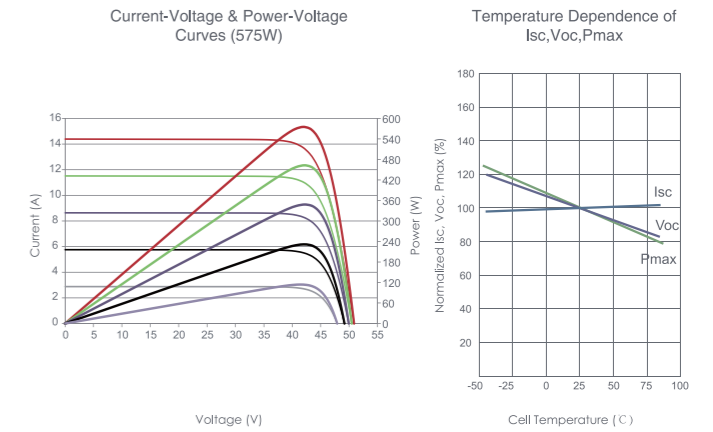


## Packaging Configuration

(Two pallets = One stack)

31 pcs/pallets, 62 pcs/stack, 620 pcs/ 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	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	IP68 Rated
Output Cables	TUV 1×4.0mm <sup>2</sup> (+): 400mm, (-): 200mm or Customized Length

## SPECIFICATIONS

Module Type	JKM570N-72HL4		JKM575N-72HL4		JKM580N-72HL4		JKM585N-72HL4		JKM590N-72HL4	
	JKM570N-72HL4-V	JKM575N-72HL4-V	JKM580N-72HL4-V	JKM585N-72HL4-V	JKM590N-72HL4-V	JKM590N-72HL4-V	JKM590N-72HL4-V	JKM590N-72HL4-V	JKM590N-72HL4-V	JKM590N-72HL4-V
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	570Wp	430Wp	575Wp	433Wp	580Wp	437Wp	585Wp	441Wp	590Wp	445Wp
Maximum Power Voltage (Vmp)	43.18V	40.03V	43.32V	40.20V	43.46V	40.36V	43.6V	40.52V	43.74V	40.68V
Maximum Power Current (Imp)	13.21A	10.73A	13.28A	10.78A	13.35A	10.83A	13.42A	10.88A	13.49A	10.93A
Open-circuit Voltage (Voc)	51.65V	39.25V	51.78V	39.35V	51.91V	39.45V	52.04V	39.55V	52.17V	39.65V
Short-circuit Current (Isc)	14.01A	11.31A	14.08A	11.37A	14.15A	11.42A	14.22A	11.48A	14.29A	11.53A
Module Efficiency STC (%)	22.07%		22.26%		22.45%		22.65%		22.84%	
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	-0.29%/°C									
Temperature coefficients of Voc	-0.25%/°C									
Temperature coefficients of Isc	0.045%/°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 72HL4-BDV 560-580 Watt BIFACIAL MODULE WITH DUAL GLASS

## N-Type

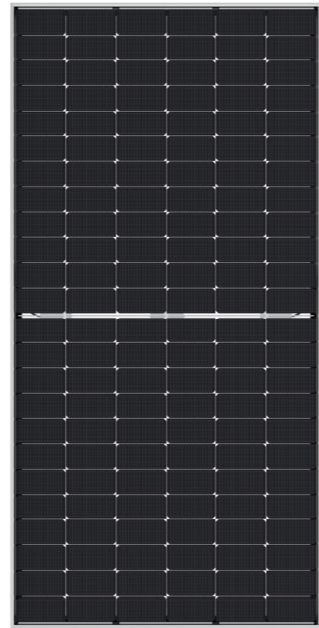
Positive power tolerance of 0~+3%

IEC61215(2016), IEC61730(2016)

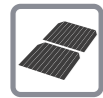
ISO9001:2015: Quality Management System

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.

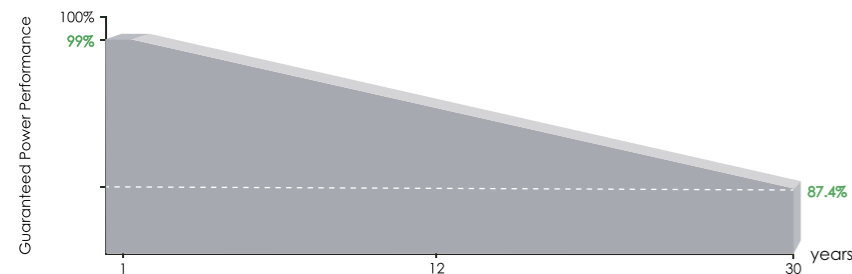


### Enhanced Mechanical Load

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



## LINEAR PERFORMANCE WARRANTY

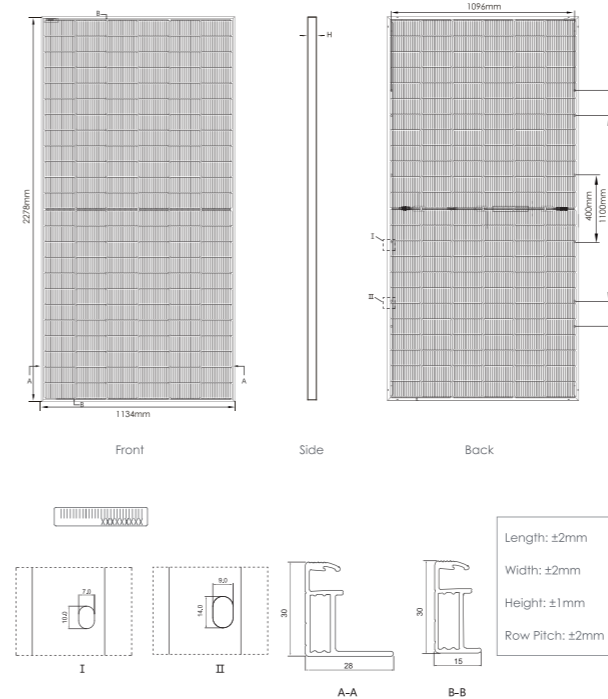


12 Year Product Warranty

30 Year Linear Power Warranty

0.40% Annual Degradation Over 30 years

## Engineering Drawings

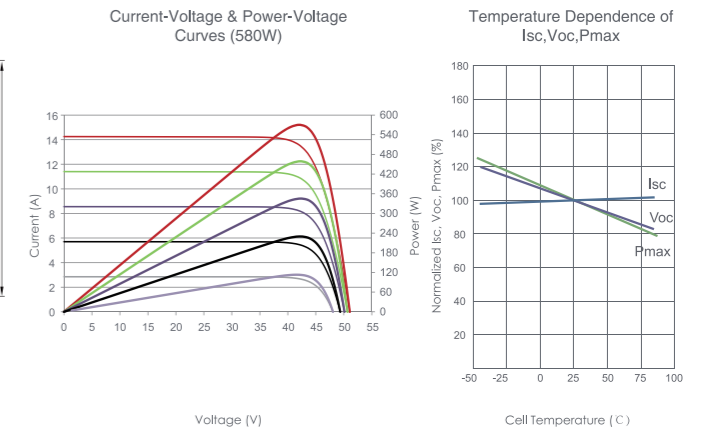


## Packaging Configuration

( 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 (2×72)
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	JKM560N-72HL4-BDV		JKM565N-72HL4-BDV		JKM570N-72HL4-BDV		JKM575N-72HL4-BDV		JKM580N-72HL4-BDV	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	560Wp	421Wp	565Wp	425Wp	570Wp	429Wp	575Wp	432Wp	580Wp	436Wp
Maximum Power Voltage (Vmp)	41.95V	39.39V	42.14V	39.52V	42.29V	39.65V	42.44V	39.78V	42.59V	39.87V
Maximum Power Current (Imp)	13.35A	10.69A	13.41A	10.75A	13.48A	10.81A	13.55A	10.87A	13.62A	10.94A
Open-circuit Voltage (Voc)	50.67V	48.13V	50.87V	48.32V	51.07V	48.51V	51.27V	48.70V	51.47V	48.89V
Short-circuit Current (Isc)	14.13A	11.41A	14.19A	11.46A	14.25A	11.50A	14.31A	11.55A	14.37A	11.60A
Module Efficiency STC (%)	21.68%		21.87%		22.07%		22.26%		22.45%	
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	-0.29%/°C									
Temperature coefficients of Voc	-0.25%/°C									
Temperature coefficients of Isc	0.045%/°C									
Nominal operating cell temperature (NOCT)	45±2°C									
Refer. Bifacial Factor	80±5%									

## BIFACIAL OUTPUT-REARSIDE POWER GAIN

	%	JKM560N-72HL4-BDV		JKM565N-72HL4-BDV		JKM570N-72HL4-BDV		JKM575N-72HL4-BDV		JKM580N-72HL4-BDV	
		Maximum Power (Pmax)	Module Efficiency STC (%)	Maximum Power (Pmax)	Module Efficiency STC (%)	Maximum Power (Pmax)	Module Efficiency STC (%)	Maximum Power (Pmax)	Module Efficiency STC (%)	Maximum Power (Pmax)	Module Efficiency STC (%)
5%		588Wp	22.77%	593Wp	22.97%	599Wp	23.17%	604Wp	23.37%	609Wp	23.57%
15%		644Wp	24.93%	650Wp	25.15%	656Wp	25.37%	661Wp	25.60%	667Wp	25.82%
25%		700Wp	27.10%	706Wp	27.34%	713Wp	27.58%	719Wp	27.82%	725Wp	28.07%

\*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

## 66HL4M-BDV

### 600-620 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.

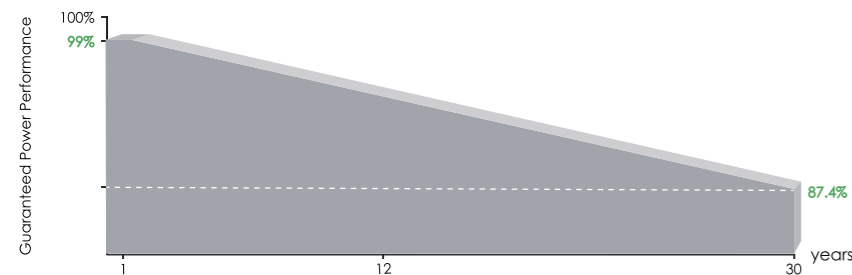


#### Enhanced Mechanical Load

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



## LINEAR PERFORMANCE WARRANTY



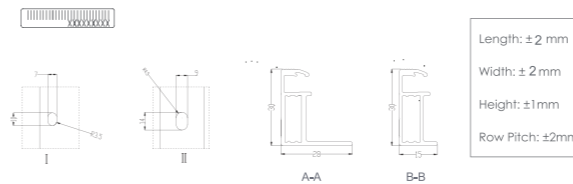
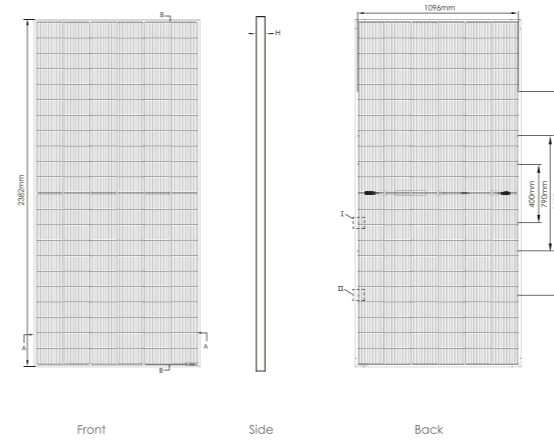
12 Year Product Warranty

30 Year Linear Power Warranty

0.40% Annual Degradation Over 30 years



## Engineering Drawings

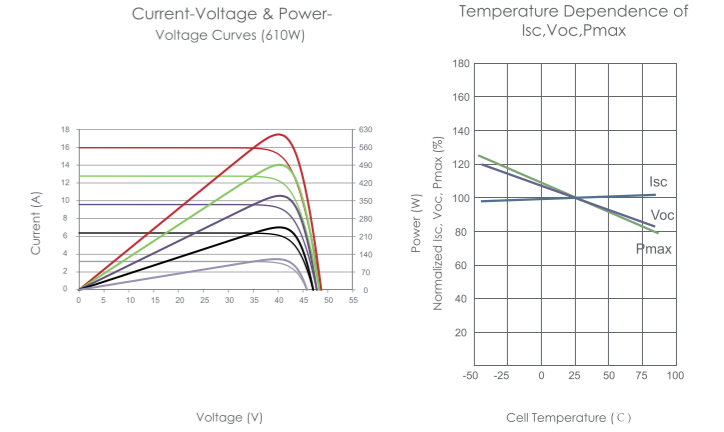


## Packaging Configuration

( 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	132 (2×66)
Dimensions	2382×1134×30mm (93.78×44.65×1.18 inch)
Weight	33.4kg (73.63 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	JKM600N-66HL4M-BDV		JKM605N-66HL4M-BDV		JKM610N-66HL4M-BDV		JKM615N-66HL4M-BDV		JKM620N-66HL4M-BDV	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	600Wp	453Wp	605Wp	457Wp	610Wp	461Wp	615Wp	464Wp	620Wp	468Wp
Maximum Power Voltage (Vmp)	40.16V	37.60V	40.31V	37.76V	40.46V	37.92V	40.60V	38.10V	40.74V	38.25V
Maximum Power Current (Imp)	14.94A	12.05A	15.01A	12.10A	15.08A	12.15A	15.15A	12.19A	15.22A	12.24A
Open-circuit Voltage (Voc)	48.28V	45.86V	48.48V	46.05V	48.68V	46.24V	48.88V	46.43V	49.08V	46.62V
Short-circuit Current (Isc)	15.84A	12.79A	15.90A	12.83A	15.96A	12.88A	16.02A	12.92A	16.08A	12.95A
Module Efficiency STC (%)	22.21%		22.40%		22.58%		22.77%		22.95%	
Operating Temperature(°C)	-40°C~+85°C									
Maximum system voltage	1500VDC (IEC)									
Maximum series fuse rating	30A									
Power tolerance	0~+3%									
Temperature coefficient of Pmax	-0.298%/°C									
Temperature coefficient of Voc	-0.25%/°C									
Temperature coefficient 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)	630Wp	635Wp	641Wp	646Wp	651Wp
	Module Efficiency STC (%)	23.32%	23.52%	23.71%	23.91%	24.10%
15%	Maximum Power (Pmax)	690Wp	696Wp	702Wp	707Wp	713Wp
	Module Efficiency STC (%)	25.54%	25.76%	25.97%	26.18%	26.40%
25%	Maximum Power (Pmax)	750Wp	756Wp	763Wp	769Wp	775Wp
	Module Efficiency STC (%)	27.77%	28.00%	28.23%	28.46%	28.69%

\*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-BDV 615-635 Watt BIFACIAL MODULE WITH DUAL GLASS

## N-Type

Positive power tolerance of 0~+3%

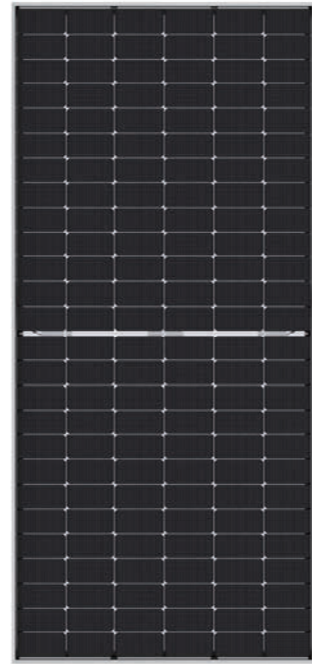
IEC61215(2016), IEC61730(2016)

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.

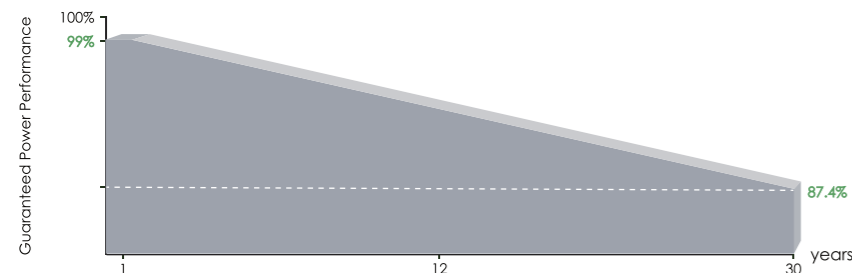


### Enhanced Mechanical Load

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



## LINEAR PERFORMANCE WARRANTY

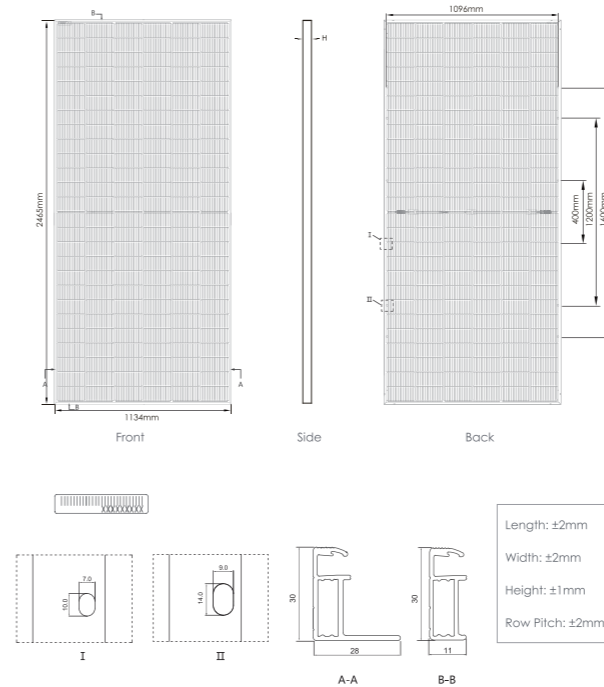


12 Year Product Warranty

30 Year Linear Power Warranty

0.40% Annual Degradation Over 30 years

## Engineering Drawings

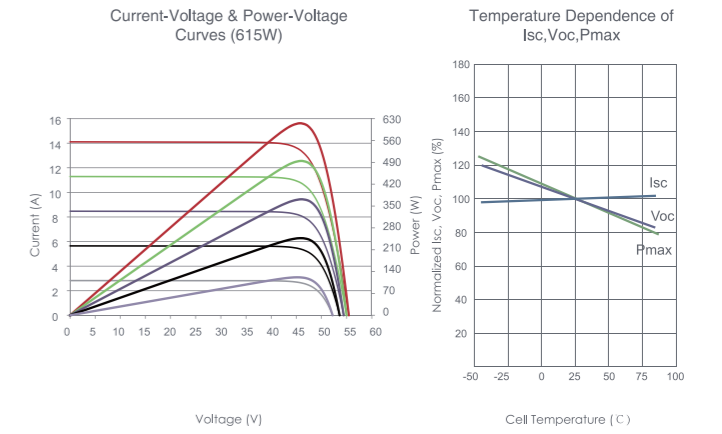


## Packaging Configuration

( Two pallets = One stack )

36pcs/pallets, 72pcs/stack, 576pcs/ 40'HQ Container

## Electrical Performance & Temperature Dependence



## Mechanical Characteristics

Cell Type	N type Mono-crystalline
No. of cells	156 (2×78)
Dimensions	2465×1134×30mm (97.05×44.65×1.18 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	JKM615N-78HL4-BDV		JKM620N-78HL4-BDV		JKM625N-78HL4-BDV		JKM630N-78HL4-BDV		JKM635N-78HL4-BDV	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	615Wp	462Wp	625Wp	466Wp	630Wp	470Wp	630Wp	474Wp	635Wp	478Wp
Maximum Power Voltage (Vmp)	45.77V	42.46V	45.93V	42.57V	46.10V	42.68V	46.26V	42.79V	46.42V	42.90V
Maximum Power Current (Imp)	13.44A	10.89A	13.50A	10.95A	13.56A	11.01A	13.62A	11.07A	13.68A	11.13A
Open-circuit Voltage (Voc)	55.44V	52.66V	55.58V	52.79V	55.72V	52.93V	55.86V	53.06V	55.97V	53.17V
Short-circuit Current (Isc)	14.11A	11.39A	14.19A	11.46A	14.27A	11.52A	14.35A	11.59A	14.43A	11.65A
Module Efficiency STC (%)	22.00%		22.18%		22.36%		22.54%		22.72%	
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	-0.29%/°C									
Temperature coefficients of Voc	-0.25%/°C									
Temperature coefficients of Isc	0.045%/°C									
Nominal operating cell temperature (NOCT)	45±2°C									
Refer. Bifacial Factor	80±5%									

## BIFACIAL OUTPUT-REAR SIDE POWER GAIN

		JKM615N-78HL4-BDV	JKM620N-78HL4-BDV	JKM625N-78HL4-BDV	JKM630N-78HL4-BDV	JKM635N-78HL4-BDV
5%	Maximum Power (Pmax)	646Wp	651Wp	656Wp	662Wp	667Wp
	Module Efficiency STC (%)	23.10%	23.29%	23.48%	23.66%	23.86%
15%	Maximum Power (Pmax)	707Wp	713Wp	719Wp	725Wp	730Wp
	Module Efficiency STC (%)	25.30%	25.51%	25.71%	25.92%	26.12%
25%	Maximum Power (Pmax)	769Wp	775Wp	781Wp	788Wp	794Wp
	Module Efficiency STC (%)	27.50%	27.73%	27.95%	28.17%	28.40%

\*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

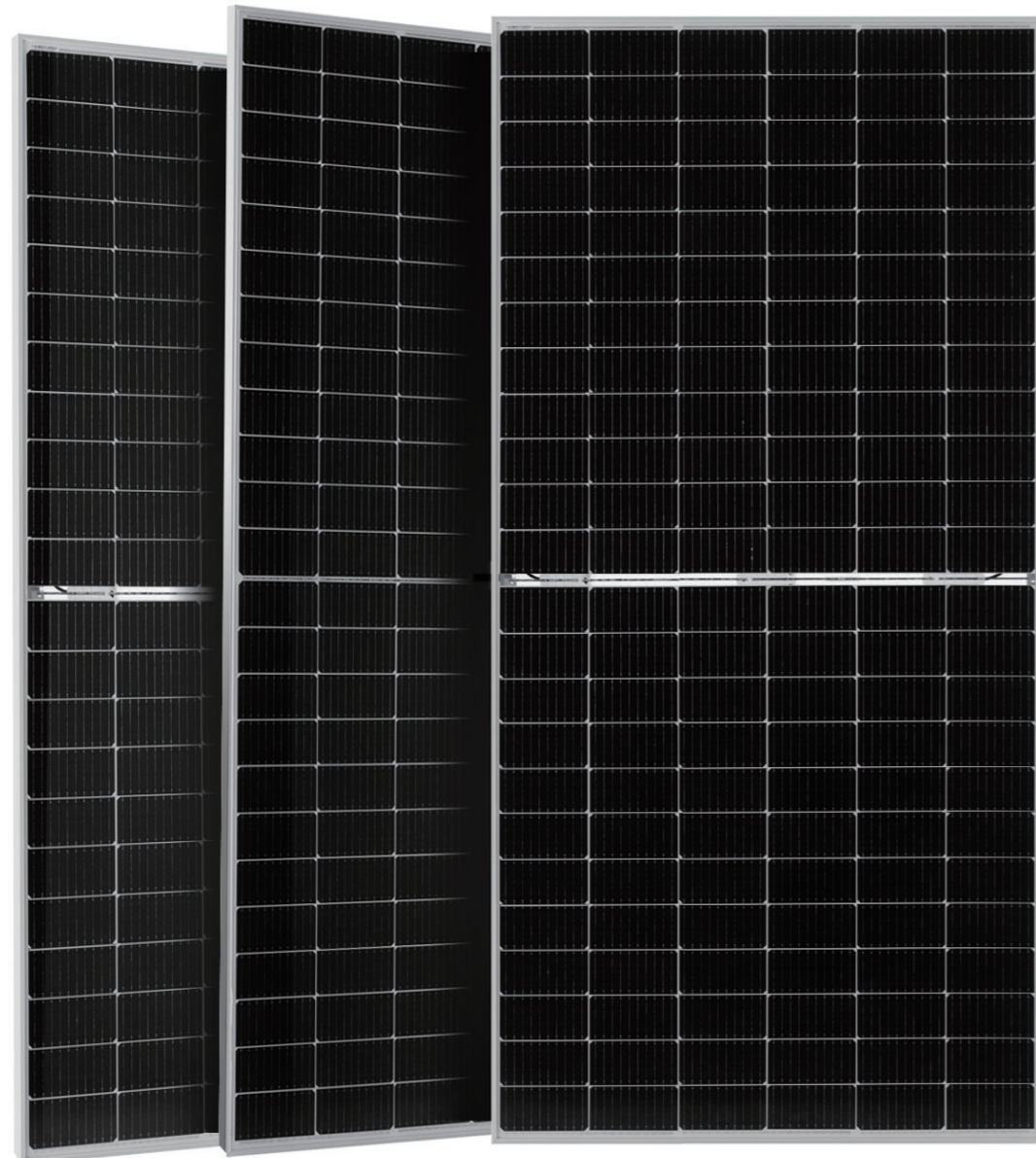
## Completes System and Product Certifications

IEC61215(2016), IEC61730(2016)

ISO9001:2015: Quality Management System

ISO14001:2015: Environment Management System

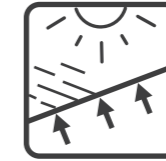
ISO45001:2018: Occupational health and safety management systems



# Customer Benefits



Multi Busbar



PID Resistance



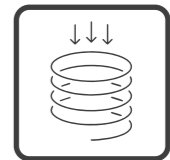
Higher Lifetime Power Yield



Saving BOS Cost



Higher power output



Severe Weather Resilience



Low-light Performance



Durability Against Extreme Environmental Conditions



High Efficiency

Product	# of cells	Size/Weight
JKM540-560M-72HL4-(V)	72 Cells	2278×1134×35mm / 28.0kg
JKM535-555M-72HL4-BDVP	78 Cells	2278×1134×30mm / 32.0kg



# Tiger Pro 72HC

## 540-560 Watt

### MONO-FACIAL MODULE

#### P-Type

Positive power tolerance of 0~+3%

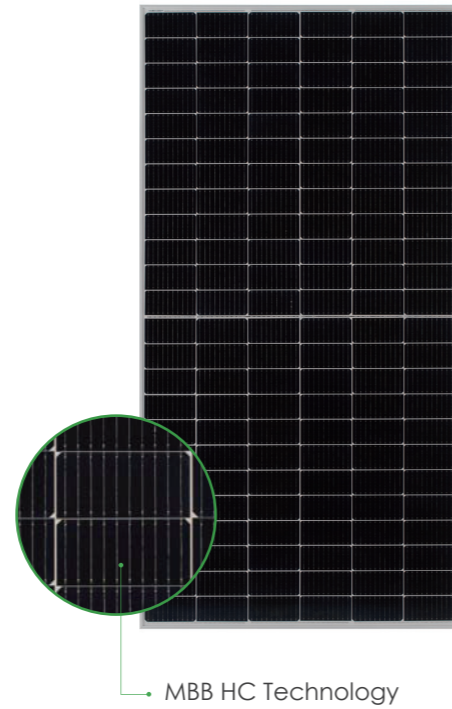
IEC61215(2016), IEC61730(2016)

ISO9001:2015: Quality Management System

ISO14001:2015: Environment Management System

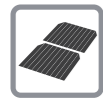
ISO45001:2018

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.



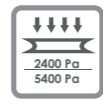
#### Durability Against Extreme Environmental Conditions

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).

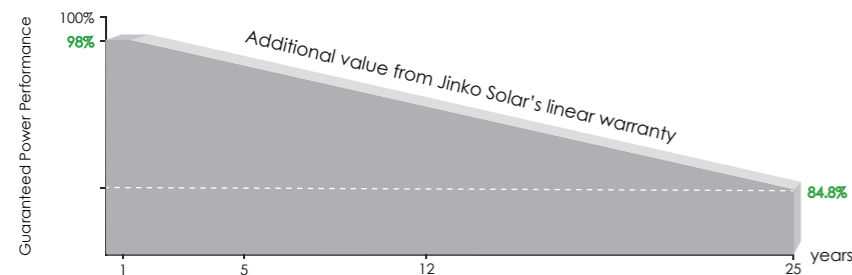


#### Longer Life-time Power Yield

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



## LINEAR PERFORMANCE WARRANTY

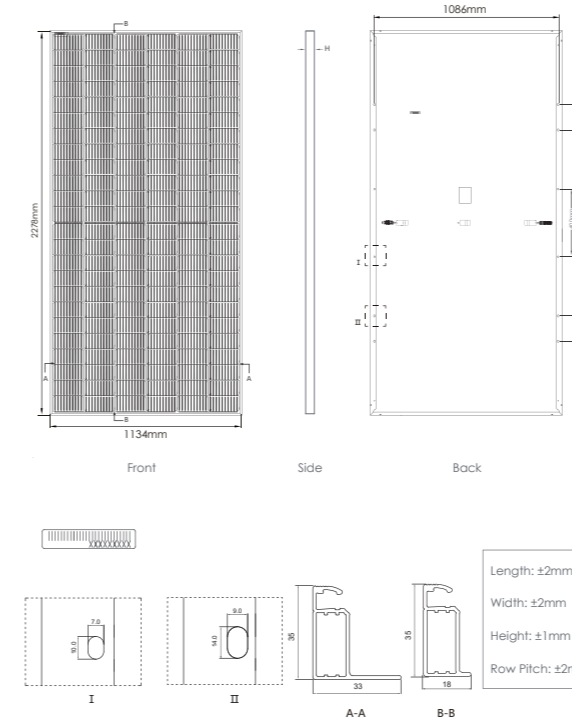


**12 Year Product Warranty**

**25 Year Linear Power Warranty**

**0.55% Annual Degradation Over 25 years**

## Engineering Drawings

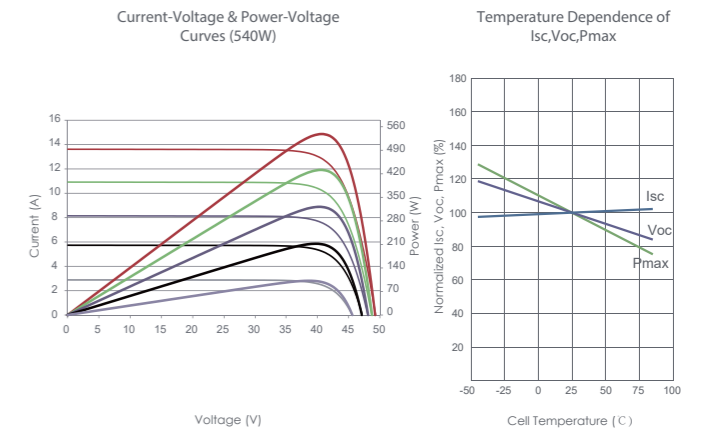


## Packaging Configuration

(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	JKM540M-72HL4		JKM545M-72HL4		JKM550M-72HL4		JKM555M-72HL4		JKM560M-72HL4	
	JKM540M-72HL4-V	JKM545M-72HL4-V	JKM550M-72HL4-V	JKM555M-72HL4-V	JKM560M-72HL4-V	JKM560M-72HL4-V	JKM560M-72HL4-V	JKM560M-72HL4-V	JKM560M-72HL4-V	JKM560M-72HL4-V
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	540Wp	402Wp	545Wp	405Wp	550Wp	409Wp	555Wp	413Wp	560Wp	417Wp
Maximum Power Voltage (Vmp)	40.70V	38.08V	40.80V	38.25V	40.90V	38.42V	40.99V	38.59V	41.09V	38.69V
Maximum Power Current (Imp)	13.27A	10.55A	13.36A	10.60A	13.45A	10.65A	13.54A	10.70A	13.63A	10.77A
Open-circuit Voltage (Voc)	49.42V	46.65V	49.52V	46.74V	49.62V	46.84V	49.72V	46.93V	49.82V	47.02V
Short-circuit Current (Isc)	13.85A	11.19A	13.94A	11.26A	14.03A	11.33A	14.12A	11.40A	14.21A	11.48A
Module Efficiency STC (%)	20.90%		21.10%		21.29%		21.48%		21.68%	
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-BDVP

## 535-555 Watt

### BIFACIAL MODULE WITH DUAL GLASS

#### P-Type

Positive power tolerance of 0~+3%

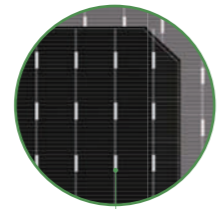
IEC61215(2016), IEC61730(2016)

ISO9001:2015: Quality Management System

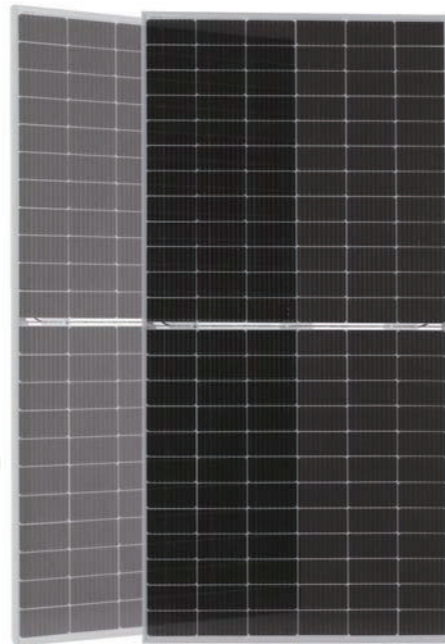
ISO14001:2015: Environment Management System

ISO45001:2018

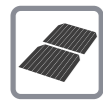
Occupational health and safety management systems



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.



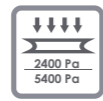
#### Higher Power Output

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.

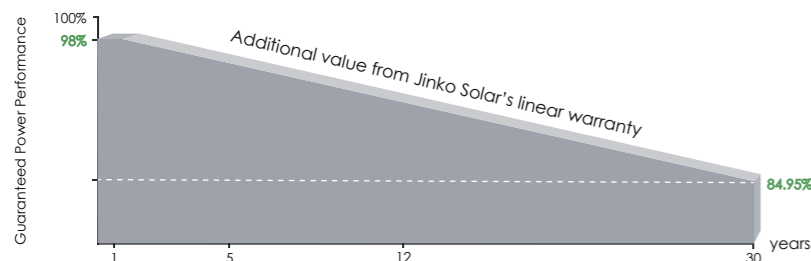


#### Enhanced Mechanical Load

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



## LINEAR PERFORMANCE WARRANTY

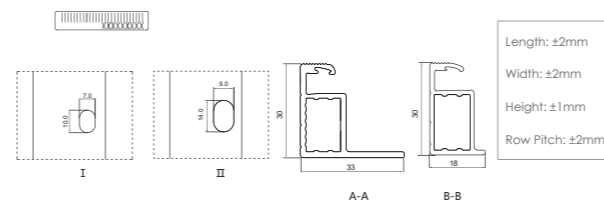
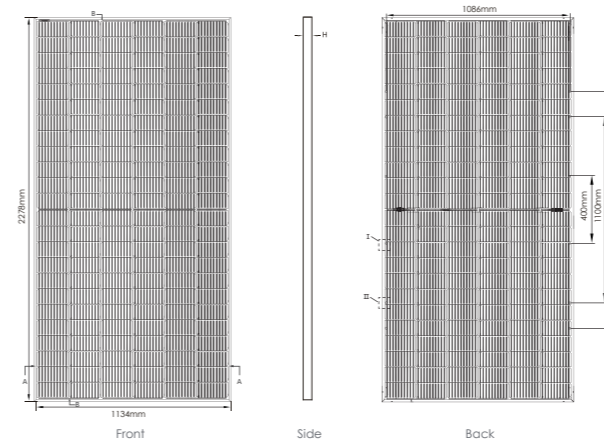


12 Year Product Warranty

30 Year Linear Power Warranty

0.45% Annual Degradation Over 30 years

## Engineering Drawings

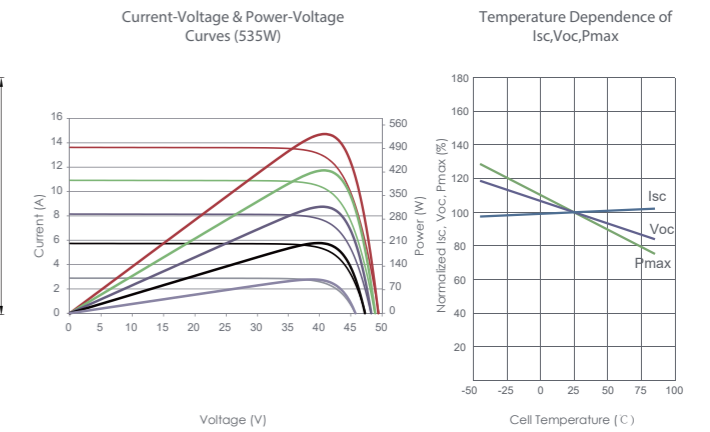


## Packaging Configuration

( 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	JKM535M-72HL4-BDVP		JKM540M-72HL4-BDVP		JKM545M-72HL4-BDVP		JKM550M-72HL4-BDVP		JKM555M-72HL4-BDVP	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	535Wp	398Wp	540Wp	402Wp	545Wp	405Wp	550Wp	409Wp	555Wp	413Wp
Maximum Power Voltage (Vmp)	40.94V	37.94V	41.13V	38.08V	41.32V	38.25V	41.50V	38.42V	41.70V	38.59V
Maximum Power Current (Imp)	13.07A	10.49A	13.13A	10.55A	13.19A	10.60A	13.25A	10.65A	13.31A	10.74A
Open-circuit Voltage (Voc)	49.54V	46.76V	49.73V	46.94V	49.92V	47.12V	50.11V	47.30V	50.30V	47.48V
Short-circuit Current (Isc)	13.83A	11.17A	13.89A	11.22A	13.95A	11.27A	14.01A	11.32A	14.07A	11.36A
Module Efficiency STC (%)	20.71%		20.90%		21.10%		21.29%		21.48%	
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

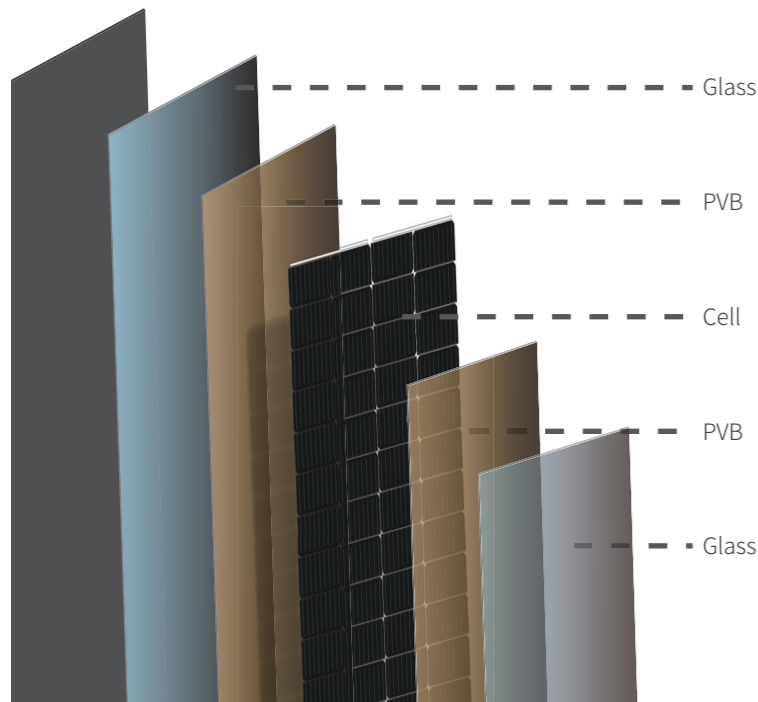
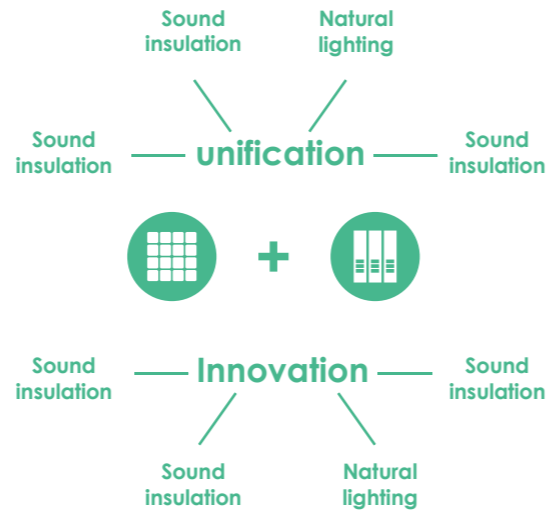
		562Wp	567Wp	572Wp	578Wp	583Wp
5%	Maximum Power (Pmax)	562Wp	567Wp	572Wp	578Wp	583Wp
	Module Efficiency STC (%)	21.76%	21.95%	22.14%	21.37%	22.57%
15%	Maximum Power (Pmax)	615Wp	621Wp	623Wp	633Wp	638Wp
	Module Efficiency STC (%)	23.81%	24.04%	24.27%	24.50%	24.70%
25%	Maximum Power (Pmax)	669Wp	675Wp	681Wp	688Wp	694Wp
	Module Efficiency STC (%)	25.90%	26.13%	26.36%	26.63%	26.87%

\*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



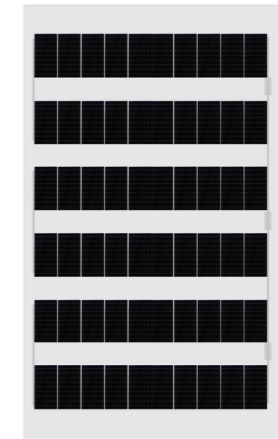
# BIPV Introduction

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



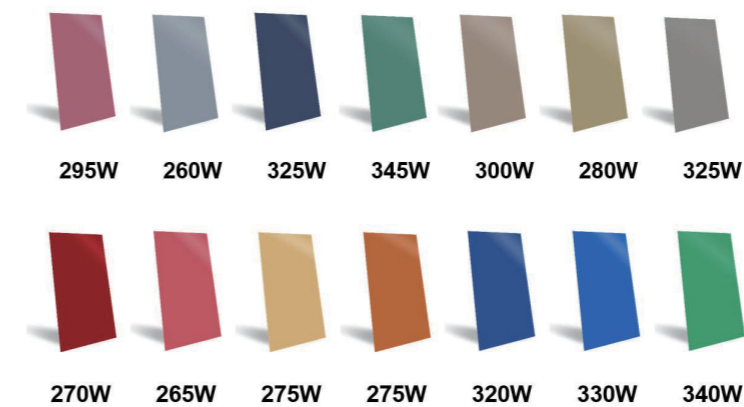
## ◆ Comprehensive scene coverage

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;

JinkoSolar BIPV Series Color Steel Tile Solution

### Frameless modules

Non-dust accumulation design

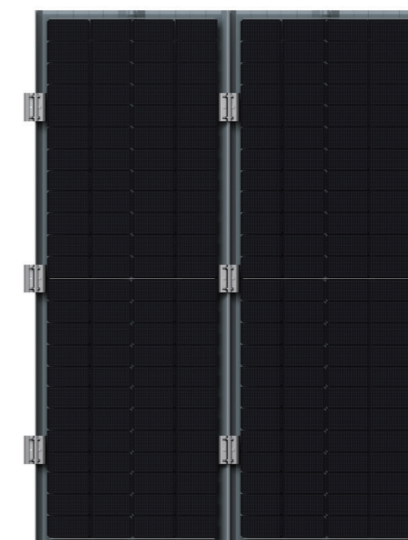
### Compatibility Upgrade

Different color steel tile sizes available

Compatible with existing color tile roofs

### Double Glass Fixture

Modules on top of color tiles  
Shadow shading design



### Optimized Heat Dissipation Performance

Fixed color steel tiles by locking clips and clamps  
Large pitch channel design reduces operating temperature  
12°C, improve more than 4% power generation

### Intelligent Optimized Chip

Shade free  
Increase power generation by more than 2%



# BIPV

## Color Steel Tile System

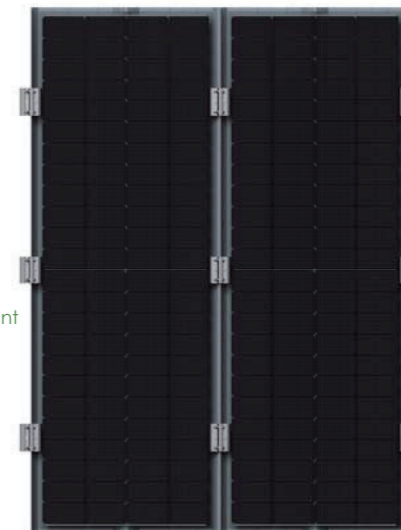


- Efficient Power Generation** | N-Type TOPCon modules, with a power generation increase of over 3%
- Superb Waterproofing** | 360° edge-locking structure, suitable for continuous installation
- Reliable Fire Resistance** | System combustion rating is Class A, non-combustible material
- Ultimate Wind Resistance** | Can withstand up to wind level 16
- Construction-Friendly** | Self-developed fixtures for installation, sturdy and reliable, easy to install and dismantle
- Worry-Free Operation and Maintenance** | Modules can be walked on, no need for inspection channels, intelligent operation and maintenance
- Ultra-Long Lifespan** | 30 years of integrated design lifespan

## PV Color Steel Tile System 360-380 Watt

### Standard & Certificate

- IEC61215(2016) · GB 8624 · ISO9001: 2015, Quality Management System
- IEC61730(2016) · ISO14001: 2015, Environment Management System
- EN13501-1 · ISO45001: 2018, Occupational health and safety management



### Key Features



#### Waterproof

Frameless double glass PV module forms perfect waterproof capacity and drainage system



#### Long reliability

Dual glass structure guarantees lower risk of crack, better corrosion resistance and no diffusivity



#### Dual function

Replacing conventional building envelope materials, with functions of building skin and power generator



#### High efficiency

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



#### Strong safety

Double layers of tempered glass with class A of fireproofing leads to better wind load, heat resistance and frost resistance



#### Architectural design element

Inherent advantages of integration in module design

### SPECIFICATIONS

Module Type	JKBS355N-48HL4-BDV		JKBS360N-48HL4-BDV		JKBS365N-48HL4-BDV		JKBS370N-48HL4-BDV		JKBS375N-48HL4-BDV	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	360Wp	271Wp	365Wp	274Wp	370Wp	278Wp	375Wp	282Wp	380Wp	286Wp
Maximum Power Voltage (Vmp)	28.28V	26.49V	28.47V	26.70V	28.66V	26.86V	28.85V	27.02V	29.04V	27.18V
Maximum Power Current (Imp)	12.73A	10.22A	12.82A	10.28A	12.91A	10.36A	13.00A	10.44A	13.09A	10.52A
Open-circuit Voltage (Voc)	33.97V	32.27V	34.06V	32.35V	34.23V	32.51V	34.40V	32.67V	34.57V	32.83V
Short-circuit Current (Isc)	13.38A	10.80A	13.43A	10.84A	13.53A	10.92A	13.63A	11.00A	13.73A	11.08A
Module Efficiency STC (%)	20.63%		20.92%		21.20%		21.49%		21.83%	
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)	-0.29%/°C									
Temperature Coefficients of (Voc)	-0.25%/°C									
Temperature Coefficients of (Isc)	0.046%/°C									
Nominal Operating Cell Temperature (NOCT)	45±2°C									

### Mechanical Characteristics

Thickness of Color Steel: 0.6mm	Cell Type: N-type Cell	Weight: 20 kg	Output Cables:
Strength of Color Steel: ≥Q345	Number of Half-cells: 96(8x12)	Front/Back Glass: 2.0mm strength toughened glass	TÜV x4.0mm²,
Thickness of Coating: >150g/m²	Dimensions: 2272×768×5mm	Junction Box: IP68 Rated	or Customized Length

### Packaging Configuration

(Two pallets = One stack)

32pcs/pallet, 64pcs/stack, 640pcs/40'HQ Container

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# All-Red BIPV 180-200 Watt

## Building Integrated PV

Positive power tolerance of 0~+3%

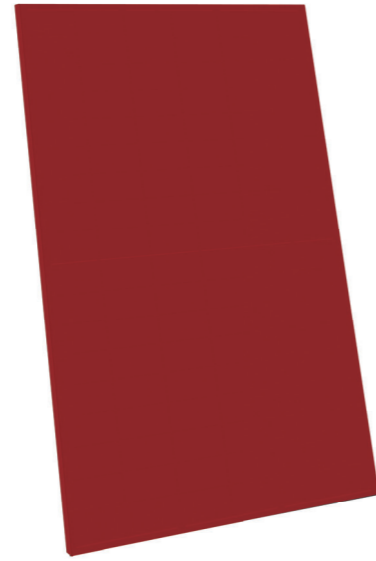
IEC61215(2016), IEC61730(2016)

ISO9001:2015: Quality Management System

ISO14001:2015: Environment Management System

ISO45001:2018

Occupational health and safety management systems



## Key Features



### Elegant and Compact Design

One of the main advantages in solar architecture. Aesthetic appeal without metal wire exposition.



### Reliable performance

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



### A Wide Range of Colors

A rich palette of colors that fits different architectural styles.



### Power Generated Building

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



### Higher Efficiency

More cells per unit area and higher module efficiency thanks to a higher-density cell arrangement.



### First-class safety

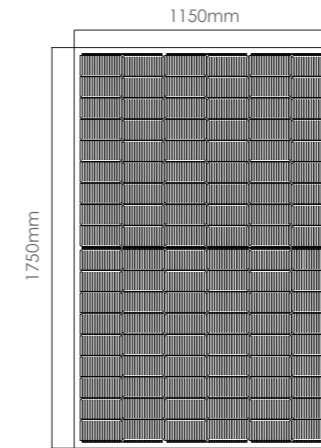
Double layers of tempered glass with fire safety class A, enhanced wind load, heat resistance and frost resistance.



### Building Integrated

Fully compliant with the electrical building safety, which makes it the ideal solution for BIPV.

## Engineering Drawings



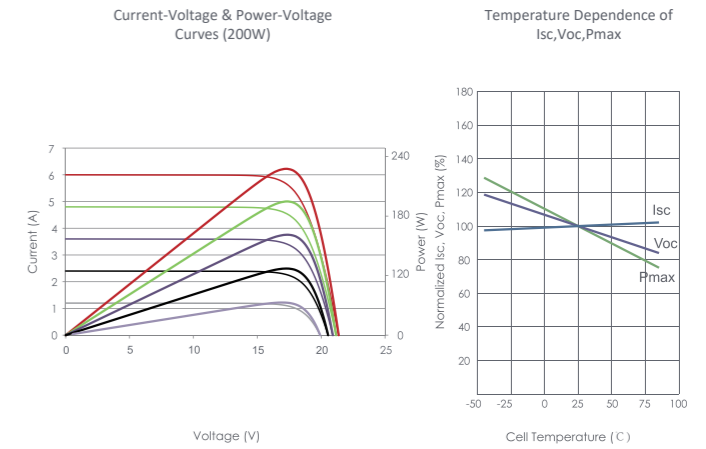
Length: ±2 mm  
Width: ±2 mm  
Height: ±1 mm  
Row Pitch: ±2 mm

## Packaging Configuration

( Two pallets = One stack )

17pcs/pallet , 34pcs/stack, 340pcs/40'HQ Container or customized

## Electrical Performance & Temperature Dependence



## Mechanical Characteristics

Cell Type	Monocrystalline N-Type
No. of cells	108
Dimensions	1750×1150×11,5mm (68,90×45,27×0,45 inch)
Weight	54,61 kg (120,39 lbs)
Front/Black Glass	5,0 mm+5,0 mm tempered glass
Junction Box	IP68 Rated
Output Cables	TUV 1×4,0mm <sup>2</sup> (+): 400mm , (-): 200mm or Customized Length

## SPECIFICATIONS

Module Type	JKBF180N-54HL4-BDV-R1D		JKBF185N-54HL4-BDV-R1D		JKBF190N-54HL4-BDV-R1D		JKBF195N-54HL4-BDV-R1D		JKBF200N-54HL4-BDV-R1D	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	180 Wp	135 Wp	185 Wp	139 Wp	190 Wp	143 Wp	195 Wp	147 Wp	200 Wp	150 Wp
Maximum Power Voltage (Vmp)	33,0 V	30,7 V	33,0 V	30,7 V	33,0 V	30,7 V	33,0 V	30,7 V	33,0 V	30,7 V
Maximum Power Current (Imp)	5,45 A	4,40 A	5,60 A	4,53 A	5,75 A	4,65 A	5,91 A	4,77 A	6,06 A	4,89 A
Open-circuit Voltage (Voc)	38,5 V	36,2 V	38,5 V	36,2 V	38,5 V	36,2 V	38,5 V	36,2 V	38,5 V	36,2 V
Short-circuit Current (Isc)	5,89 A	4,75 A	6,05 A	4,89 A	6,21 A	5,02 A	6,38 A	5,15 A	6,54 A	5,28 A
Module Efficiency STC (%)	8,94 %		9,19 %		9,44 %		9,69 %		9,94 %	
Operating Temperature(°C)	-0,4°C~+85°C									
Maximum system voltage	1000/1500 VDC (IEC)									
Maximum series fuse rating	25 A									
Power tolerance	0~+3 %									
Temperature coefficient of Pmax	-0,29 %/°C									
Temperature coefficient of Voc	-0,25 %/°C									
Temperature coefficient of Isc	-0,045 %/°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 %

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\* The parameters of BIPV product are determined according to detailed customization information, the datasheet is just for your reference. Specifications included in this datasheet are subject to change without notice for product improvement.

## PERFORMANCE WARRANTY

5 Year Product Warranty

25 Year Power Warranty

10% in the first 10 years and 20% in the remain 15 years

\*For detailed warranty information, please refer to our BIPV warranty document.

# All-Black BIPV 375-395 Watt

## Building Integrated PV

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



### Elegant and Compact Design

One of the main advantages in solar architecture. Aesthetic appeal without metal wire exposition.



### Reliable performance

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



### A Wide Range of Colors

A rich palette of colors that fits different architectural styles.



### Power Generated Building

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



### Higher Efficiency

More cells per unit area and higher module efficiency thanks to a higher-density cell arrangement.



### First-class safety

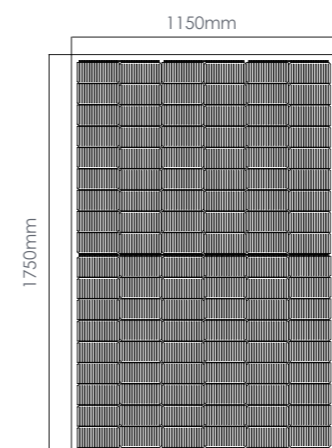
Double layers of tempered glass with fire safety class A, enhanced wind load, heat resistance and frost resistance.



### Building Integrated

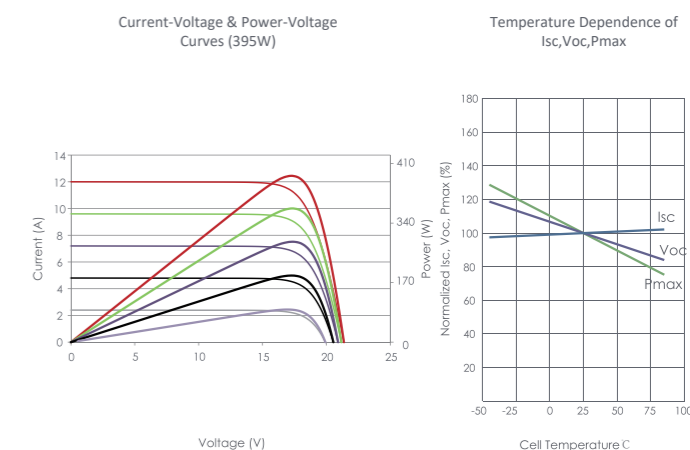
Fully compliant with the electrical building safety, which makes it the ideal solution for BIPV.

## Engineering Drawings



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

## Electrical Performance & Temperature Dependence



## Mechanical Characteristics

Cell Type	Monocrystalline N-Type
No. of cells	108
Dimensions	1750×1150×11.5mm (68,90×45,27×0,45 inch)
Weight	54,61 kg (120,39 lbs)
Front/Black Glass	5,0 mm+5,0 mm tempered glass
Junction Box	IP68 Rated
Output Cables	TUV 1×4,0mm' (+): 400mm, (-): 200mm or Customized Length

## Packaging Configuration

( Two pallets = One stack )

17pcs/pallet , 34pcs/stack, 340pcs/40'HQ Container or customized

## SPECIFICATIONS

Module Type	JKBF375N-54HL4-BDV-B0D		JKBF380N-54HL4-BDV-B0D		JKBF385N-54HL4-BDV-B0D		JKBF390N-54HL4-BDV-B0D		JKBF395N-54HL4-BDV-B0D	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	375 Wp	282 Wp	380 Wp	286 Wp	385 Wp	289 Wp	390 Wp	293 Wp	395 Wp	297 Wp
Maximum Power Voltage (Vmp)	33,5 V	31,1 V	33,5 V	31,1 V	33,5 V	31,1 V	33,5 V	31,1 V	33,5 V	31,1 V
Maximum Power Current (Imp)	11,21 A	9,05 A	11,36 A	9,17 A	11,51 A	9,30 A	11,66 A	9,42 A	11,81 A	9,54 A
Open-circuit Voltage (Voc)	38,5 V	36,2 V	38,5 V	36,2 V	38,5 V	36,2 V	38,5 V	36,2 V	38,5 V	36,2 V
Short-circuit Current (Isc)	12,11 A	9,78 A	12,27 A	9,91 A	12,43 A	10,04 A	12,59 A	10,17 A	12,75 A	10,30 A
Module Efficiency STC (%)	18,63 %		18,88 %		19,13 %		19,38 %		19,63 %	
Operating Temperature(°C)	-0,4°C~+85°C									
Maximum system voltage	1000/1500 VDC (IEC)									
Maximum series fuse rating	25 A									
Power tolerance	0~+3 %									
Temperature coefficient of Pmax	-0,29 %/°C									
Temperature coefficient of Voc	-0,25 %/°C									
Temperature coefficient of Isc	-0,045 %/°C									
Nominal operating cell temperature (NOCT)	45±2°C									

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

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

\* Power measurement tolerance: ±3 %

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\* The parameters of BIPV product are determined according to detailed customization information, the datasheet is just for your reference. Specifications included in this datasheet are subject to change without notice for product improvement.

## PERFORMANCE WARRANTY

5 Year Product Warranty

25 Year Power Warranty

10% in the first 10 years and 20% in the remain 15 years

\*For detailed warranty information, please refer to our BIPV warranty document.



# Transparent BIPV

## 245-265 Watt

### Building Integrated PV

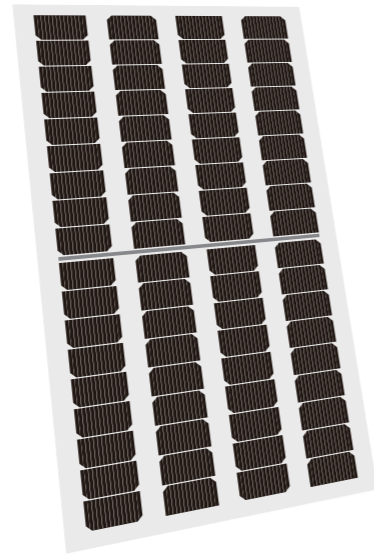
Positive power tolerance of 0~+3%

IEC61215(2016), IEC61730(2016)

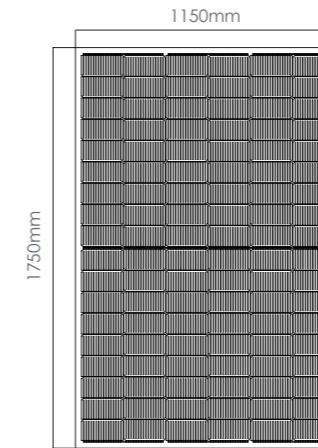
ISO9001:2015: Quality Management System

ISO14001:2015: Environment Management System

ISO45001:2018 Occupational health and safety management systems

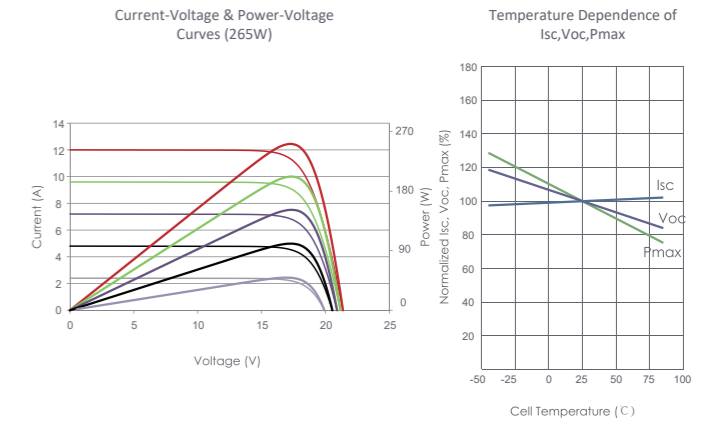


### Engineering Drawings



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

### Electrical Performance & Temperature Dependence



### Mechanical Characteristics

Cell Type	Monocrystalline N-Type
No. of cells	72 (8x9)
Dimensions	1750×1150×11,5mm (68,90×45,27×0,45 inch)
Weight	54,61 kg (120,39 lbs)
Front/Back Glass	5,0 mm+5,0 mm tempered glass
Transmittance	30%-40%
Junction Box	IP68 Rated
Output Cables	TUV 1×4,0mm <sup>2</sup> (+): 400mm, (-): 200mm or Customized Length

### Packaging Configuration

( Two pallets = One stack )

17pcs/pallet , 34pcs/stack, 340pcs/40'HQ Container or customized

## Key Features



#### Elegant and Compact Design

One of the main advantages in solar architecture. Aesthetic appeal without metal wire exposition.



#### Reliable performance

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



#### A Wide Range of Colors

A rich palette of colors that fits different architectural styles.



#### Power Generated Building

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



#### Higher Efficiency

More cells per unit area and higher module efficiency thanks to a higher-density cell arrangement.



#### First-class safety

Double layers of tempered glass with fire safety class A, enhanced wind load, heat resistance and frost resistance.



#### Building Integrated

Fully compliant with the electrical building safety, which makes it the ideal solution for BIPV.

## SPECIFICATIONS

Module Type	JKBF245N-36HL4-BDV-T0DH		JKBF250N-36HL4-BDV-T0DH		JKBF255N-36HL4-BDV-T0DH		JKBF260N-36HL4-BDV-T0DH		JKBF265N-36HL4-BDV-T0DH	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	245 Wp	184 Wp	250 Wp	188 Wp	255 Wp	192 Wp	260 Wp	195 Wp	265 Wp	199 Wp
Maximum Power Voltage (Vmp)	22,2 V	20,2 V	22,2 V	20,6 V	22,2 V	20,6 V	22,2 V	20,6 V	22,2 V	20,6 V
Maximum Power Current (Imp)	11,28 A	9,11 A	11,28 A	9,11 A	11,51 A	9,30 A	11,73 A	9,48 A	11,96 A	9,66 A
Open-circuit Voltage (Voc)	25,6 V	24,1 V	25,6 V	24,1 V	25,6 V	24,1 V	25,6 V	24,1 V	25,6 V	24,1 V
Short-circuit Current (Isc)	12,19 A	9,84 A	12,19 A	9,84 A	12,43 A	10,04 A	12,67 A	10,24 A	12,92 A	10,43 A
Module Efficiency STC (%)	12,17 %		12,42 %		12,67 %		12,92 %		13,17 %	
Operating Temperature(°C)	-0,4°C~+85°C									
Maximum system voltage	1000/1500 VDC (IEC)									
Maximum series fuse rating	25 A									
Power tolerance	0~+3 %									
Temperature coefficient of Pmax	-0,29 %/°C									
Temperature coefficient of Voc	-0,25 %/°C									
Temperature coefficient of Isc	-0,045 %/°C									
Nominal operating cell temperature (NOCT)	45±2°C									

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

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

\* Power measurement tolerance: ±3 %

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\* The parameters of BIPV product are determined according to detailed customization information, the datasheet is just for your reference.

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

## PERFORMANCE WARRANTY

5 Year Product Warranty

25 Year Power Warranty

10% in the first 10 years and 20% in the remain 15 years

\*For detailed warranty information, please refer to our BIPV warranty document.

# JKS-B51100-GI

Low Voltage LFP Battery



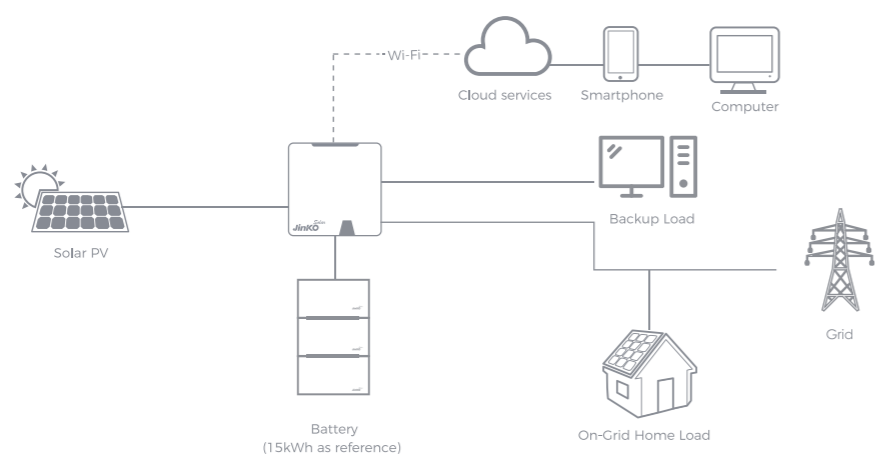
## SPECIFICATIONS

Battery Pack	JKS-B51100-GI			
Datasheet	JKS-B51100-GI	JKS-B51200-GI	JKS-B51300-GI	JKS-B51400-GI
System Demo				
Battery Module	JKS-B51100-GI (5.12kWh, 51.2V, 58kg)			
Number of Modules	1	2	3	4
Energy Capacity	5.12kWh	10.24kWh	15.36kWh	20.48kWh
Usable Capacity	4.6kWh	9.36kWh	13.82kWh	18.43kWh
Dimension (W/D/H) <sup>1</sup>	660/210/410mm	660/210/810mm	660/210/1210mm	660/210/1610mm
Weight	58kg	116kg	174kg	232kg
Rated Charging/ Discharging Power <sup>1</sup>	2.56kW	4.86kW	4.86kW	4.86kW
Max. Charging/ Discharging Power <sup>1</sup>	4.86kW	4.86kW	4.86kW	4.86kW
Max. Charging/ Discharging Current <sup>2</sup>	95A	95A	95A	95A
<b>GENERAL SPECIFICATION</b>				
Battery Type	Cobalt Free Lithium Iron Phosphate (LFP)			
Nominal Voltage	51.2V			
Operating Voltage Range	44.8 - 58.4V			
IP Protection	IP65			
Installation	Wall-mounted			
Operation Temperature	-30°C - 60°C			
<b>FEATURES</b>				
Communication Port	CAN, RS485			
Warranty	10 Years			
<b>CERTIFICATION</b>				
Cell Certificates	UL1642, IEC62133, IEC62619, UN38.3			
Pack Certificates	IEC62619, UN38.3			

<sup>1</sup> The suggested charging temperature is -20°C - 50°C, whereas the suggested discharging temperature is 0°C - 50°C.  
<sup>2</sup> Recommended Charging/Discharging rate at 0.5C.

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.  
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- LONG LIFESPAN**  
 10 years comprehensive warranty with more than 6000 life cycles
- EXTREME RELIABILITY**  
 Full protections including cell, pack, and communication modules
- UNIQUE SAFETY**  
 Ingression protection class of IP65 for flexible indoor and outdoor installation
- QUICK INSTALLATION**  
 Plug-and-Play connection for 40% less installation time
- PREMIUM SERVICE**  
 Local-based support available 24/7
- ALL-IN-ONE SOLUTION**  
 PV+ESS solution for packed warranty and one-stop service and support



- 1 Battery SOC Indicator Button
- 2 Battery SOC Indicator
- 3 Hidden cable connection box



# JKR-B1250~2750-A

High Voltage LFP Battery



### LONG LIFESPAN

6,000 cycles backed by Jinkosolar 10-years authoritative warranty



### QUICK INSTALLATION

No cable between packs design and support direct parallel connection



### UNIQUE SAFETY

Multiple battery protections and cell-level anti-fire design to ensure entire safety



### HIGH STACKABLE CAPACITY

Maximum 7 packs stackable, up to 26.88kWh



### EXPANDABLE CAPACITY

Max parallel number is 5 racks, up to 134.4kWh



### STRONG STABILITY

Protection rating at IP65 to enlarge the application scenario

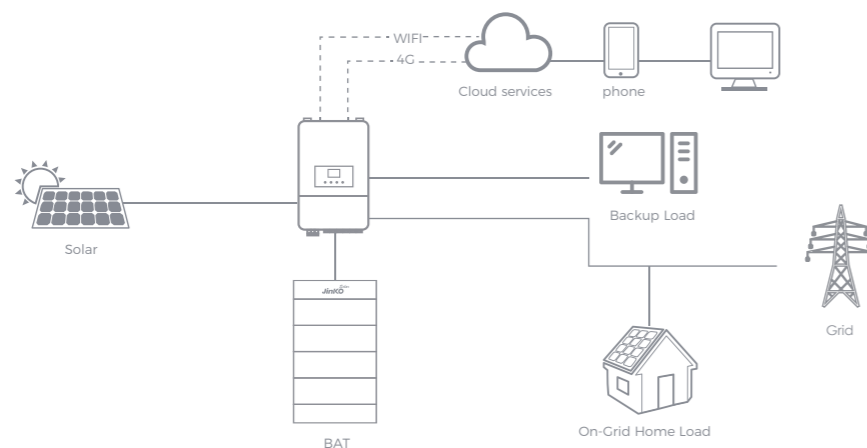
## SPECIFICATIONS

Model	JKR-B1250-A	JKR-B1650-A	JKR-B2050-A	JKR-B2450-A	JKR-B2750-A
Nominal Battery Energy (kWh)	11.52	15.36	19.20	23.04	26.88
Module Number	3	4	5	6	7
Nominal Voltage(V)	230.4	307.2	384	460.8	537.6
Nominal charge and discharge current (A)	25				
Maximum charge and discharge current(A)	45				
Nominal charge and discharge power(kW)	5.76	7.68	9.60	11.52	13.44
Nominal Capacity (Ah)	50				
Maximum Continuous Discharge Power(kw)	10.368	13.824	17.28	20.736	24.192
Maximum Continuous Charge Power (kw)	10.368	13.824	17.28	20.736	24.192
Charging Temp. Range(°C)	0-55				
Discharging Temp. Range(°C)	-20~+60				
Net Weight (kg)	124.5	161	197.5	234	270.5
Dimension[W*D*H]	610*460*754	610*460*908	610*460*1062	610*460*1216	610*460*1370
Calendar Life	>5000 Cycles				
Warranty	10 years				
Protection Level	IP65				
Alarms	Over charge/Over discharge/Over current/Over temperature/Short Circuit				
Battery Module Type	lithium battery				
Certification	IEC 62619:2022/IEC 63056-2020/IEC 60730 Annex H/IEC/EN62477-1/EN/IEC 61000-6-1/EN/IEC 61000-6-3/VDE AR-E-2510-50/UL 1973/ U L9540A/UN 38.3				

**CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.**

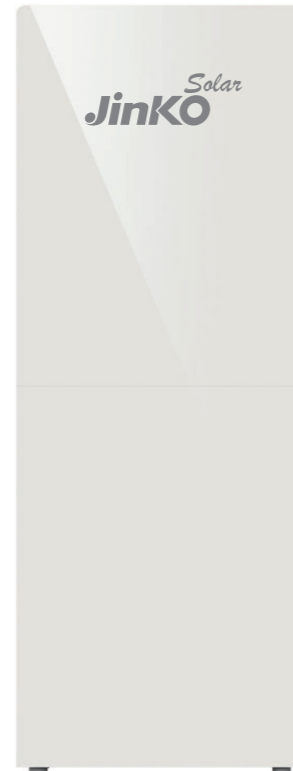
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## CIRCUIT DIAGRAM



# JKS10.2K-5HLVS

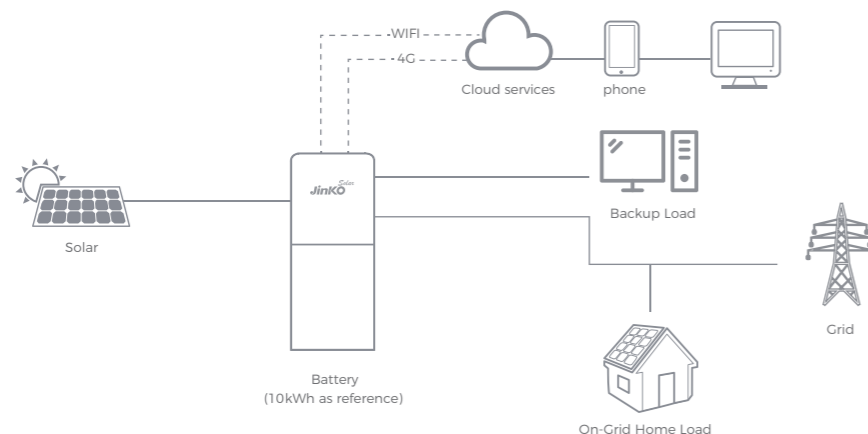
All-in-One Low Voltage System



JKS10.2K-5HLVS storage system comes with a hybrid inverter and modular batteries.. It utilizes LFP battery technology, a robust battery management system for safe operation, and a 10-year warranty for battery. It can be paired with any existing solar array. An integrated automatic transfer switch and autotransformer enables seamless operation during power outage events when paired with solar. With top safety for self-protection, it is certified by extensive safety standards.IEC62619, IEC62040,EN61000,UN38.3,NRS 097.

- The inverter can connect to a PV input of up to 6 kW DC over two MPPT channels and is available in both grid and off-grid switch functions
- The smart real-time monitoring app is available for both installers and end-users to track system production
- Double leakage current and isolation protection, multi-stage protection scheme ensures higher safety
- Built-in DC/AC safety isolation system, easier for transportation and installation
- Natural convection, wider operating temperature range of -20 to +55 degrees Celsius
- Compact and thin with minimalist exterior design

## CIRCUIT DIAGRAM



## SPECIFICATIONS

Model	JKS10.2K-5HLVS	
<b>System Capacity</b>	5kW/10kWh	
<b>PV String Input</b>	Max. DC input power (W)	6000
	Max. DC Input voltage & nominal voltage(V)	580 & 360
	Startup voltage & MPPT voltage range(V)	90 & 125-550
	Number of MPPT	2
	Max. input current per MPPT(A)	13
	Max. short-circuit current per MPPT(A)	14
<b>Battery Input</b>	Battery type	LFP (LiFePO4)
	Nominal battery voltage(V)	51.2
	Charging Voltage range (V)	44.8-57.6
	Max. charging current & discharging current(A)	70 & 100
	Battery capacity (Ah)	100Ah*2
	Energy capacity (kWh)	5.12kWh*2
Usable capacity (kWh)	9.216	
<b>AC Output (Grid)</b>	Nominal AC output power (W)	5000
	Nominal AC voltage & AC grid frequency	230Vac & 50/60Hz±5Hz
	Rated output current(A)	22.8
	Power factor (cosΦ)	0.8leading-0.8lagging
<b>AC Output (Backup)</b>	Max. output power(W)	4600W(4800W 5min; 6000W 5sec)
	Nominal AC voltage & AC grid frequency	230Vac & 50/60Hz±5Hz
	Rated output current(A)	20.9
<b>Efficiency</b>	Max. PV efficiency	97.8%
	Euro. PV efficiency	97%
<b>Protection</b>	Anti-islanding protection	Yes
	Output over current	Yes
	DC reverse polarity protection	Yes
	String fault detection	Yes
	AC/DC surge protection	DC Type II ; AC Type III
	Insulation detection	Yes
	AC short circuit protection	Yes
<b>General Specifications</b>	Dimensions W x D x H	623*170*1843mm
	Cabinet weight	52kg
	Inverter weight	28kg
	Packs weight	88kg
	*Operating temperature range	-20 C →+55 C
	Noise level	<30dB
	Cooling type	Natural Convection
	Operation altitude	≤ 2000m
	Operation humidity	0%-95% RH
	Ingress protection class	IP65(Inverter & battery cabinet)
	Warranty	5 years (inverter)/10 years (battery)
	Communication	RS485/CAN2.0/WIFI
Display	APP	
Certification & standard	EN61000 IEC 62619 IEC 63056 UN 38.3 IEC 62109 NRS 097 CEI 0-21: 2022	

\* For charging operation: 0 C →+55 C, for discharging operation: -20 C →+55 C

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.

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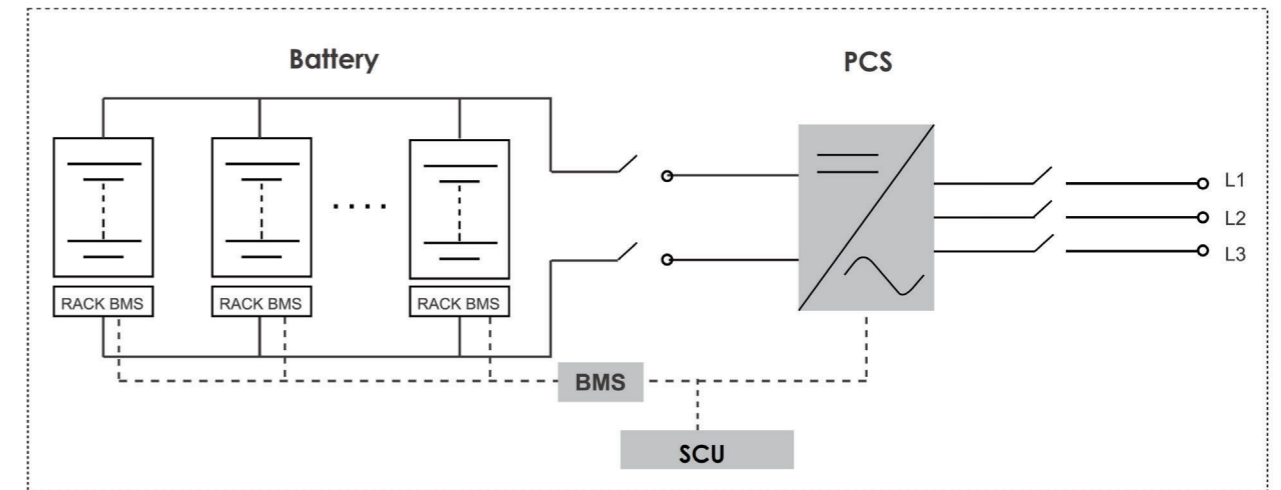


## JKS-215KLAA-100PLAA

### Liquid Cooling Energy Storage System



Jinko liquid-cooling C&I product integrates packs, BMS, PCS et al to provide customer with all-in-one 1000V ESS solution. The product can be widely used in various scenarios such as peak & valley arbitrage, backup power, maximizing self-consumption et al.



#### HIGHLY INTEGRATED

High energy-density system with capacity of 215kWh.

Module design, easy to expand

#### RELIABLE AND SAFE

- Intelligent monitoring and linkage action ensures system safety

- Integrated heating system for thermal safety and enhanced performance and reliability

#### EFFICIENT AND FLEXIBLE

- The turnkey system is design to enhance higher efficiency and longer service life

- Highly integrated ESS for easy shipping and flexible O&M

#### SMART SOFTWARE

- Multiple operation modes are available, the software can be customized and upgraded

- Cloud monitoring and operation platform supports the real time monitoring, ensuring highly efficient commission

#### APPLICATION



##### PEAK SHAVING

Optimize power consumption with battery energy storage systems



##### ENERGY BACKUP

Supply power to facilities when the grid is down, or apply in areas without power.



##### CAPACITY FIRING

Smoothing the indeterminacy of renewables energy by storing and dispatching when needed.



##### OPTIMIZATION THE USE OF RENEWABLE ENERGY

Maximizes the use of PV and the excess power can be stored for using at night



##### ARBITRAGE

Carry out arbitrage by using peak and valley electricity prices in different time periods.



##### COST SAVING

Discharge during peak demand to reduce expensive demand charges

#### DC Parameter

Cell type	LFP-3.2V/280Ah
Max. charging/discharging Power	0.5P
Rated capacity	215kWh
Rated voltage	768V
Voltage range	672V-864V
Cooling method	Liquid cooling

#### AC Parameter

Rated output power	100kW
AC voltage	400Vac
Rated grid frequency	50/60Hz
Total current waveform distortion rate	<3%
Cooling method	Intelligent forced air cooling

#### System Parameter

Operating temperature	20oC~ 50oC
range Humidity	≤ 95%RH, non-condensing
Working altitude	≤2000m
Protection level	IP54
Fire Fighting Media	Novec 1230
Anti-corrosion grade	C3
Dimension(W×D×H)	1300x1300x2300mm
Communication Interface	RS485/CAN/Ethernet

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## JKS-3440AL

Liquid Cooling Energy Storage System



JKS3440AL is a fully integrated, scalable, turnkey energy storage system for C&I and utility applications. Utilizing LFP battery technology that comes with a BMS, liquid cooling, fire suppression, smoke & temperature sensor, off-gas detection, deflagration venting, water dry pipe, it safeguards the overall safety and prolongs the system life. The industry leading high energy density enables its containerize capacity up to 3.44MWh in a 20'container. The ESS is all backed by JinkoSolar as a single point of contact for contracting, delivery, warranty and service.

### EFFECTIVE LIQUID COOLING

Non-uniform and refined pipeline design, achieving temperature difference  $\leq 2.5^{\circ}\text{C}$

Five liquid cooling control modes and auxiliary power consumption decrease by 20%

### HIGHER EFFICIENCY

Adopting cluster management technology and system efficiency increases by 1%

Cell to Cell active balance ensures the consistency between cells

### HIGHER SAFETY

Multiple level protection from cell to system to prevent from uncontrolled heat spread

Equipped with deflagration venting, gas fire protection and water suppression to ensure the final protection

### INTELLIGENT O&M

Smart management and real time monitoring ensures high efficient commission

Compact design with side-by-side layout and standard 20ft container design ensures 6.88MWh/40ft

**ESS in Power Generation**  
Support the widescale deployment of renewable energy and provide ancillary services of the grid

**ESS in Power Transmission and Distribution**  
Release existing transmission capacity and relieve network peak load

**ESS in Power Consumption**  
Supplement to the electricity supply, reducing the cost and ensuring the stable power network

Items	Parameters
Type of cell	Lithium Iron Phosphate(LFP)
Cell	3.2V/280Ah
Max. charge/discharge power	0.5P
Battery combination mode	1P384S×10
Rated capacity	3.44 MWh
Rated voltage	1228.8V
Voltage range	1075.2-1382.4V
Cooling method	Liquid Cooling
Environmental temperature	-20-50°C
Environmental humidity	$\leq 95\%RH$ , Non condensation
Altitude	$\leq 2000\text{m}$ / $<4000\text{m}$ (optional, derating)
Noise level	$< 80\text{dB(A)}$ , @1m
IP Grade	IP54
Storage temperature	-20-45°C
Corrosion-proof grade	C3 (EN ISO 12944)/C4 (optinal)/C5(optinal)
Fire protection	Gas Sensors+Deflagration Venting + FM 200/Novac 1230/ Aerosol + Water Dry Pipe
External communication interface	Ethernet/Fiber (Optional)
Dimensions (L×W×H)	6058×2438×2896mm
Weight	$\approx 35000\text{ kg}$

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