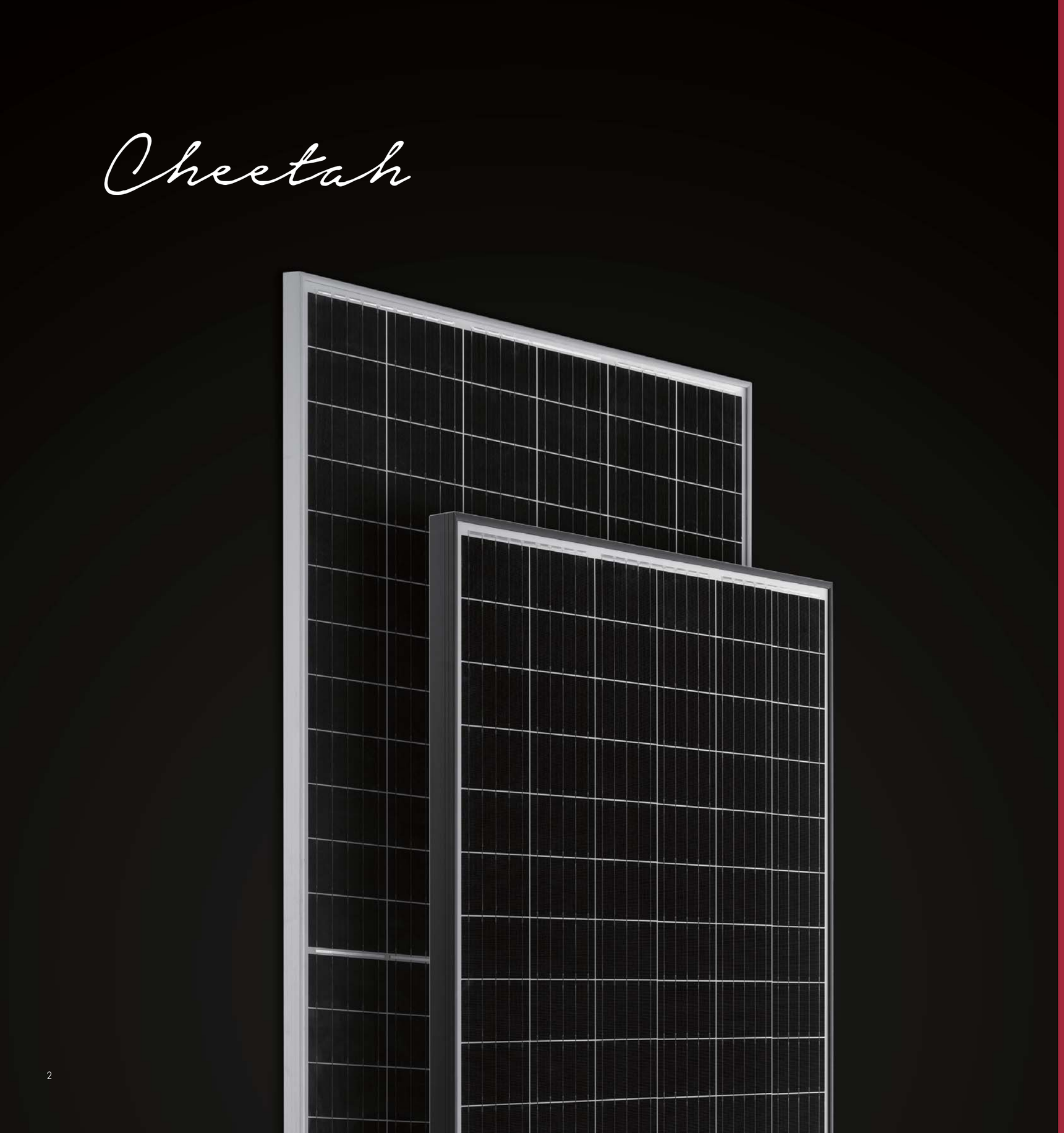
JinKO Solar

*Building **Your Trust** in Solar*

Cheetah

Cheetah

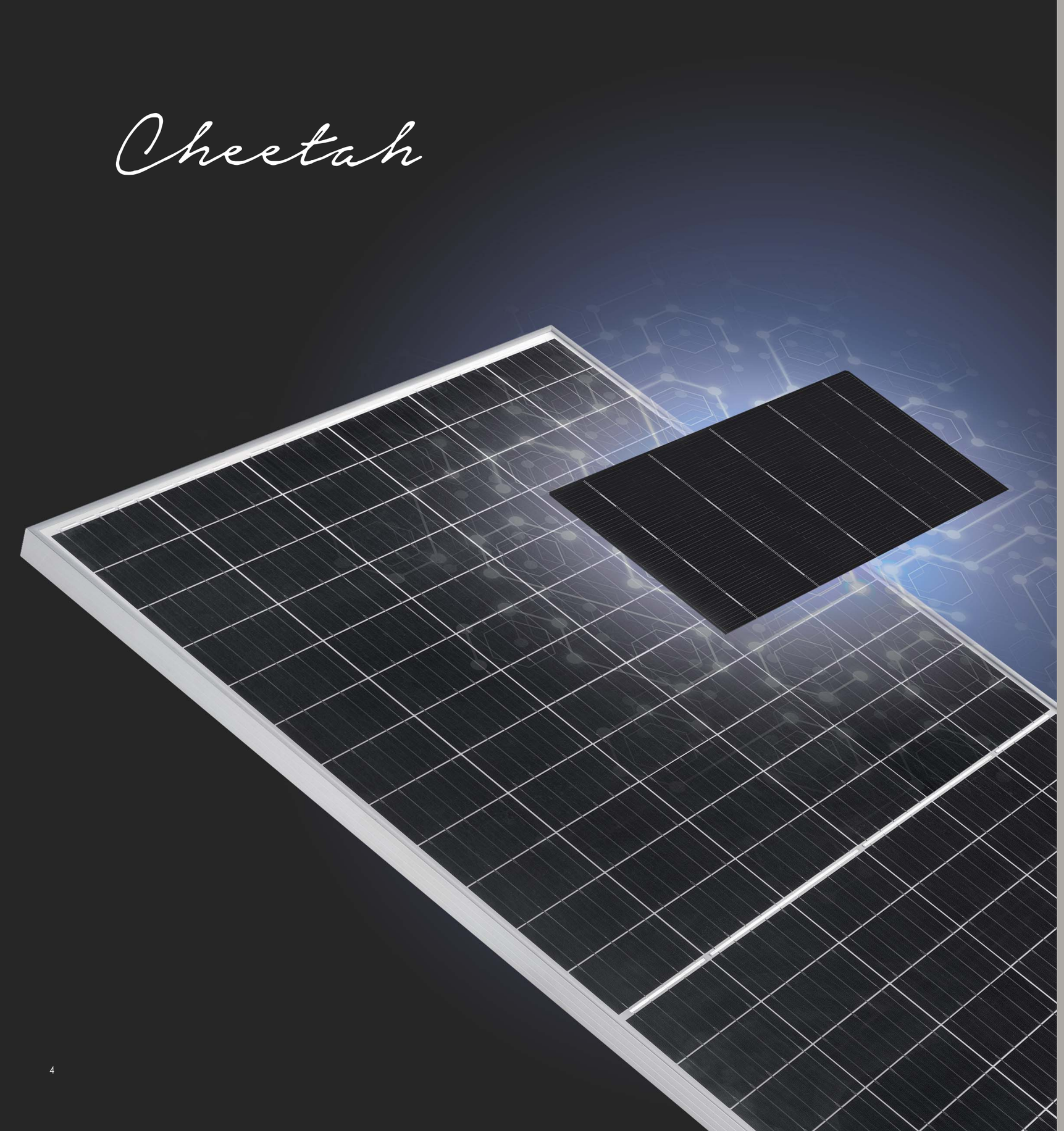


400W

All-New Cheetah Series

The Ultra High Performance Era Has Begun.

Cheetah



Half-Cell Design

Minimizing LCOE and

Maximizing IRR

Cheetah

Double the Protection

High Performance Under Extreme Environmental Conditions

To achieve grid parity, JinkoSolar pursued the development of advanced PV technologies, thereby reducing the cost of renewable energy. Cheetah fulfils this purpose via its ultra-high module efficiency.

Cheetah enters a new paradigm, with a new wafer size, new cell design and updated module concept that will keep pushing power results higher, even above 400 Wp

315W / 320W / 325W / 330W / 335W

18.67% / 18.96% / 19.26% / 19.56% / 19.85%

60 cells

380W / 385W / 390W / 395W / 400W

18.89% / 19.14% / 19.38% / 19.63% / 19.88%

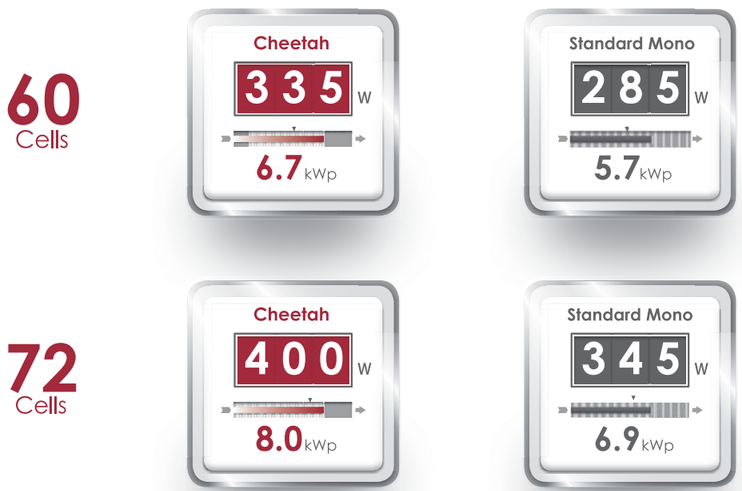
72 cells

(Module efficiency)

More Power Generation

Now you can have one of the most powerful (and one of the most economically feasible) solar panels that are commercially available for purchase today.With power up to 400 Wp, Cheetah will maximize your PV system capacity, generating more energy over 25 years and maximizing the customer's economic returns.

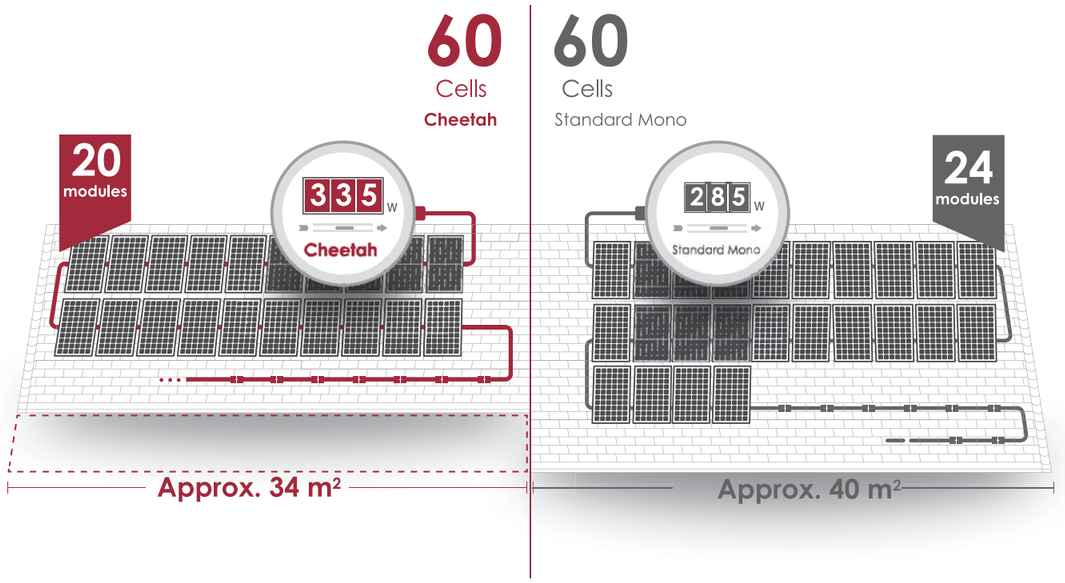
Capacity of a sample solar power system with 20 modules



More Power in Less Space

Cheetah's ultra high output occupies less area for a given power output goal. With more watts on the roof, power density is improved and the installation costs per watt are significantly reduced.

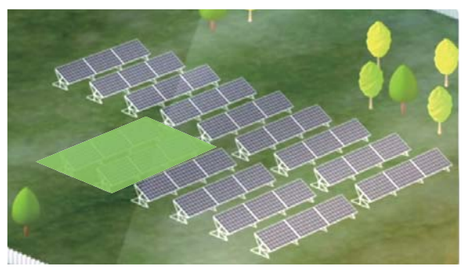
Side-by-side comparison for a sample 6.7kW rooftop system



More Power in Less Cost

Cheetah's high module power delivers improved power density, leading to less land usage, and reductions in both BOS and labor costs.

Conventional 72 cell

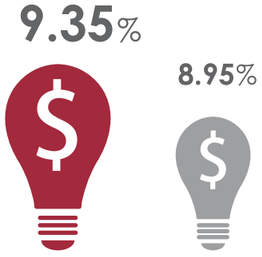


Cheetah 72 cell

Example : North America - 100MW Project

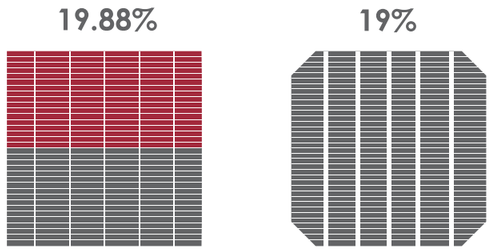
	Conventional 375Wp	Cheetah HC 400Wp
No. of Modules	266,682	250,016
No. of 40' Containers	428	437
Plant Area	1,861,185 m^2	1,809,316 m^2
Reduction in Area	0	-2.79%
Length of Support Racks	529.1 km	501.0 km
Reduction in racking	0	-5.31%

The IRR Comparison



Cheetah Conventional

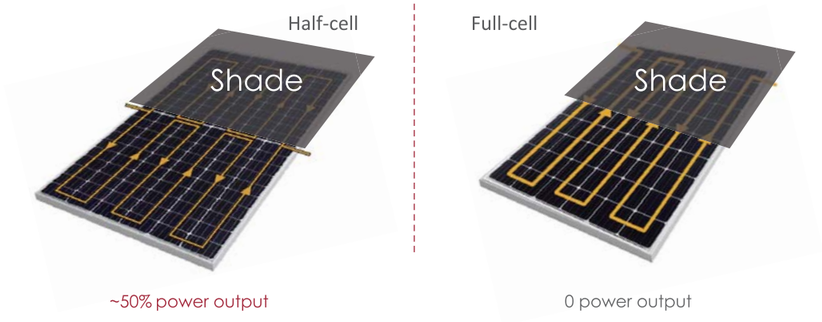
High Efficiency Cell Size



158mm **Cheetah** 156mm Conventional

Improved Performance of Half Cells

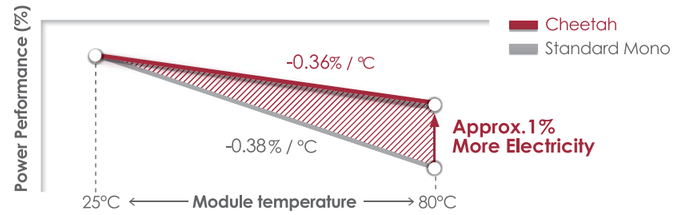
Half Cell design ensures an improved shading response, resulting in higher yields when the module is partially shaded. Shading loss experienced by half cell modules is much better than conventional modules in certain shading conditions.



~50% power output 0 power output

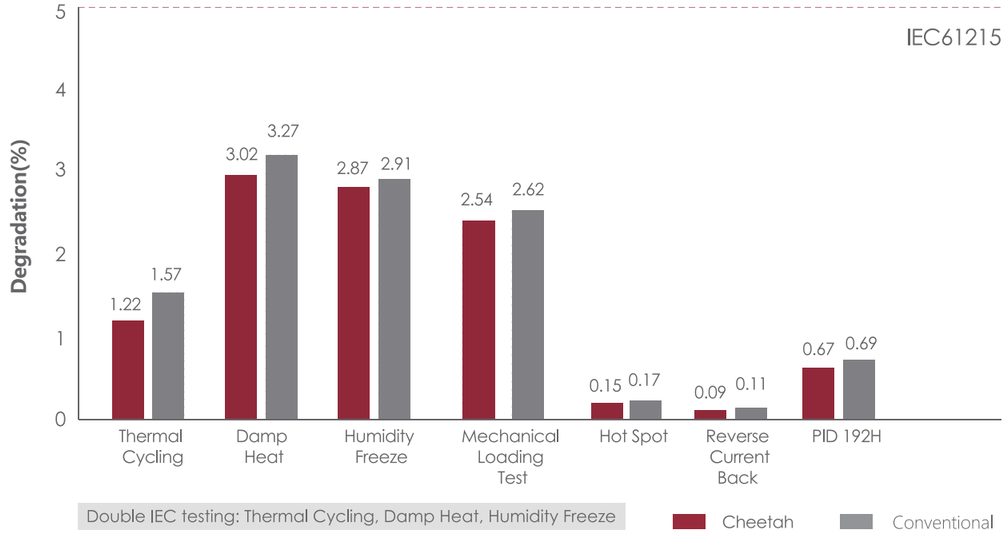
Improved Temperature Coefficient

Cheetah has an improved temperature coefficient of -0.36%/°C. Real world energy output can be increased up to 1% per day, perfect for delivering more electricity on hot summer days.



Doubled Security

Cheetah ensures reliability by achieving certification at double the industry Anti-PID standard, and double the intensity specified in the IEC standard.



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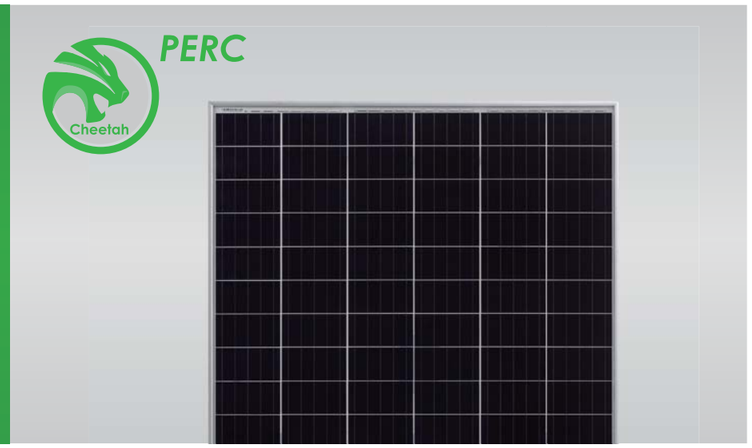
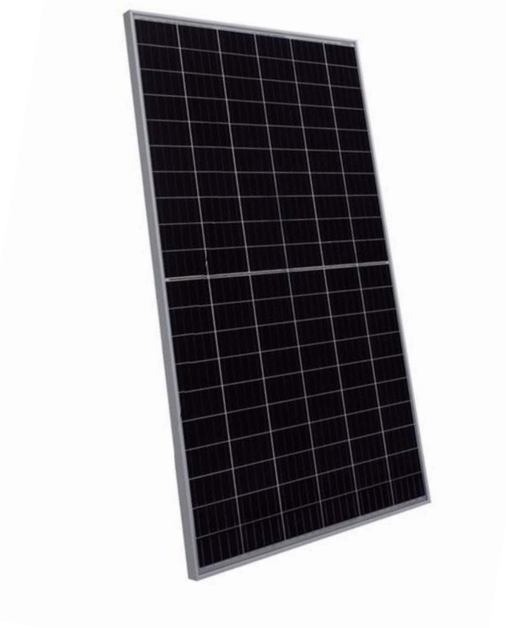
Cheetah HC 60M
325-345 Watt

MONO PERC HALF CELL MODULE

Positive power tolerance of 0~+3%

- Half Cell
- Mono PERC 60 Cell





KEY FEATURES

5 Busbar Solar Cell
5 busbar solar cell adopts new technology to improve the efficiency of modules , offers a better aesthetic appearance, making it perfect for rooftop installation.

High Efficiency
Higher module conversion efficiency (up to 20.45%) benefit from half cell structure (low resistance characteristic).

PID Resistance
Excellent Anti-PID performance guarantee limited power degradation for mass production.

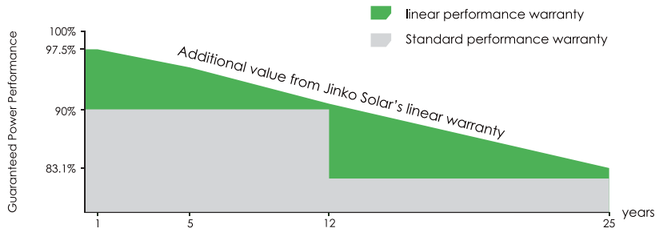
Low-light Performance
Advanced glass and cell surface textured design ensure excellent performance in low-light environment.

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

Durability Against Extreme Environmental Conditions
High salt mist and ammonia resistance certified by TUV NORD.

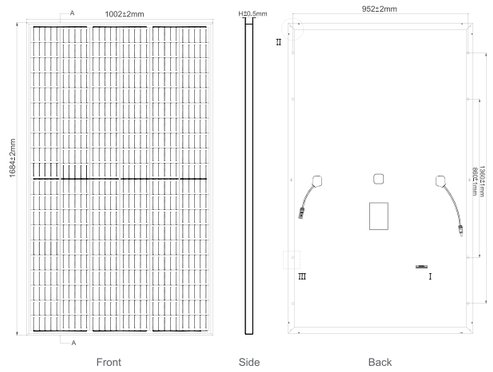
LINEAR PERFORMANCE WARRANTY

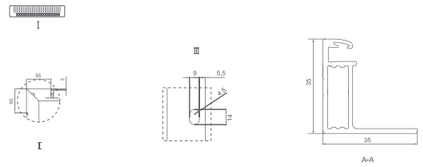
12 Year Product Warranty • 25 Year Linear Power Warranty



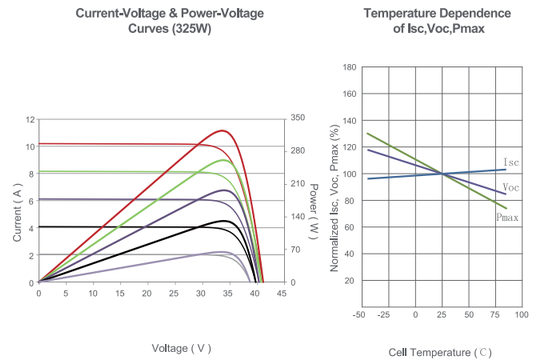
- ISO9001:2008, ISO14001:2004, OHSAS18001 certified factory
- IEC61215, IEC61730, UL1703 certified product

Engineering Drawings





Electrical Performance & Temperature Dependence



Packaging Configuration

(Two pallets = One stack)

31pcs/pallet, 62pcs/stack, 806pcs/40'HQ Container

Mechanical Characteristics

Cell Type	Mono PERC 158.75×158.75mm
No.of Half-cells	120 (6×20)
Dimensions	1684×1002×35mm (66.30×39.45×1.38 inch)
Weight	19.0 kg (41.9 lbs)
Front Glass	3.2mm, Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP67 Rated
Output Cables	TÜV 1x4.0mm², (+) 290mm, (-) 145mm or Customized Length

SPECIFICATIONS

Module Type	JKM325M-60H		JKM330M-60H		JKM335M-60H		JKM340M-60H		JKM345M-60H	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	325Wp	242Wp	330Wp	246Wp	335Wp	250Wp	340Wp	253Wp	345Wp	257Wp
Maximum Power Voltage (Vmp)	33.6V	31.6V	33.8V	31.8V	34.0V	32.0V	34.2V	32.2V	34.4V	32.4V
Maximum Power Current (Imp)	9.68A	7.66A	9.77A	7.74A	9.87A	7.82A	9.96A	7.86A	10.04A	7.94A
Open-circuit Voltage (Voc)	41.1V	38.0V	41.3V	38.2V	41.5V	38.4V	41.7V	38.6V	41.9V	38.8V
Short-circuit Current (Isc)	10.20A	8.54A	10.31A	8.65A	10.36A	8.74A	10.55A	8.86A	10.64A	8.97A
Module Efficiency STC (%)	19.26%		19.56%		19.85%		20.15%		20.45%	
Operating Temperature (℃)	-40℃~+85℃									
Maximum System Voltage	1000VDC (IEC)									
Maximum Series Fuse Rating	20A									
Power Tolerance	0~+3%									
Temperature Coefficients of Pmax	-0.36%/℃									
Temperature Coefficients of Voc	-0.28%/℃									
Temperature Coefficients of Isc	0.048%/℃									
Nominal Operating Cell Temperature (NOCT)	45±2℃									

STC: Irradiance 1000W/m² Cell Temperature 25°C AM=1.5

NOCT: Irradiance 800W/m² Ambient Temperature 20°C AM=1.5 Wind Speed 1m/s

* Power measurement tolerance: ± 3%

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Cheetah HC 72M
390-410 Watt

MONO PERC HALF CELL MODULE

Positive power tolerance of 0~+3%

- Half Cell
- Mono PERC 72 Cell

KEY FEATURES

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5 busbar solar cell adopts new technology to improve the efficiency of modules , offers a better aesthetic appearance, making it perfect for rooftop installation.

High Efficiency
Higher module conversion efficiency (up to 20.38%) benefit from half cell structure (low resistance characteristic).

PID Resistance
Excellent Anti-PID performance guarantee limited power degradation for mass production.

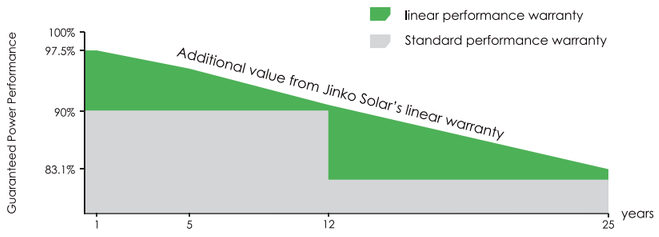
Low-light Performance
Advanced glass and cell surface textured design ensure excellent performance in low-light environment.

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

Durability Against Extreme Environmental Conditions
High salt mist and ammonia resistance certified by TUV NORD.

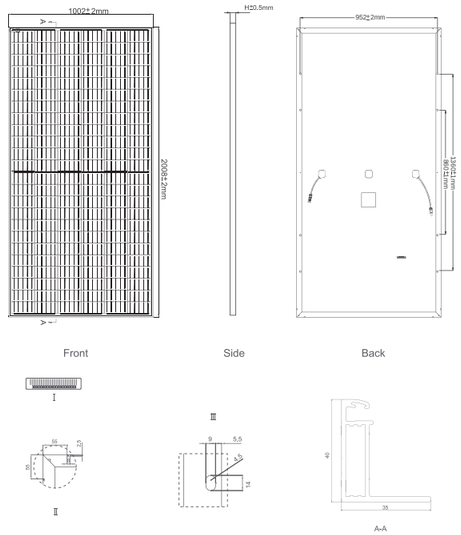
LINEAR PERFORMANCE WARRANTY

12 Year Product Warranty • 25 Year Linear Power Warranty

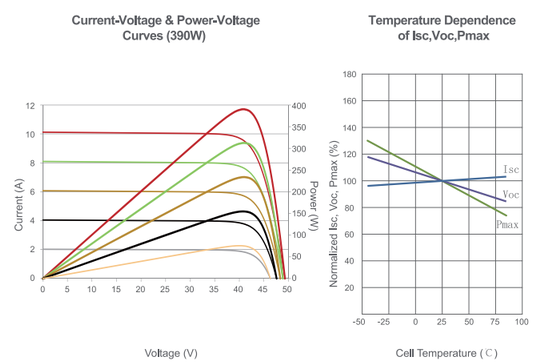


- ISO9001:2008, ISO14001:2004, OHSAS18001 certified factory
- IEC61215, IEC61730, UL1703 certified product

Engineering Drawings



Electrical Performance & Temperature Dependence



Packaging Configuration

(Two pallets =One stack)

27pcs/pallet , 54pcs/stack, 594pcs/40'HQ Container

Mechanical Characteristics

Cell Type	Mono PERC 158.75×158.75mm
No.of Half-cells	144 (6×24)
Dimensions	2008×1002×40mm (79.06×39.45×1.57 inch)
Weight	22.5 kg (49.6 lbs)
Front Glass	3.2mm, Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP67 Rated
Output Cables	TÜV 1x4.0mm², (+) 290mm, (-) 145mm or Customized Length

SPECIFICATIONS

Module Type	JKM390M-72H		JKM395M-72H		JKM400M-72H		JKM405M-72H		JKM410M-72H	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	390Wp	294Wp	395Wp	298Wp	400Wp	302Wp	405Wp	306Wp	410Wp	310Wp
Maximum Power Voltage (Vmp)	41.1V	39.1V	41.4V	39.3V	41.7V	39.6V	42.0V	39.8V	42.3V	40.0V
Maximum Power Current (Imp)	9.49A	7.54A	9.55A	7.60A	9.60A	7.66A	9.65A	7.72A	9.69A	7.76A
Open-circuit Voltage (Voc)	49.3V	48.0V	49.5V	48.2V	49.8V	48.5V	50.1V	48.7V	50.4V	48.9V
Short-circuit Current (Isc)	10.12A	8.02A	10.23A	8.09A	10.36A	8.16A	10.48A	8.22A	10.60A	8.26A
Module Efficiency STC (%)	19.38%		19.63%		19.88%		20.13%		20.38%	
Operating Temperature (℃)	-40℃~+85℃									
Maximum System Voltage	1000VDC (IEC)									
Maximum Series Fuse Rating	20A									
Power Tolerance	0~+3%									
Temperature Coefficients of Pmax	-0.36%/℃									
Temperature Coefficients of Voc	-0.28%/℃									
Temperature Coefficients of Isc	0.048%/℃									
Nominal Operating Cell Temperature (NOCT)	45±2℃									

STC: Irradiance 1000W/m² Cell Temperature 25°C AM=1.5

NOCT: Irradiance 800W/m² Ambient Temperature 20°C AM=1.5 Wind Speed 1m/s

* Power measurement tolerance: ± 3%

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Cheetah 60M
315-335 Watt
MONO PERC MODULE

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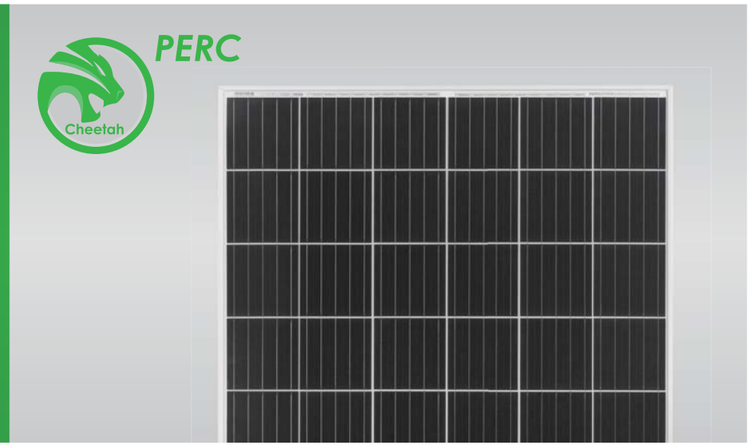

KEY FEATURES

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5 busbar solar cell adopts new technology to improve the efficiency of modules , offers a better aesthetic appearance, making it perfect for rooftop installation.

High Efficiency
Higher module conversion efficiency (up to 20.08%) benefit from Passivated Emmiter Rear Contact (PERC) technology.

PID Resistance
Excellent Anti-PID performance guarantee limited power degradation for mass production.

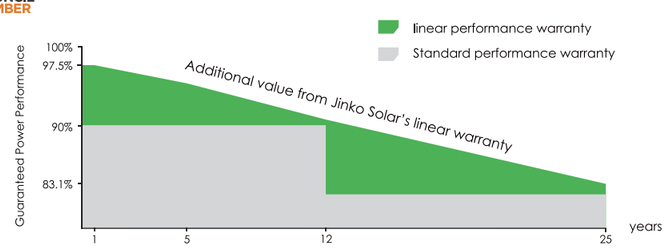
Low-light Performance
Advanced glass and cell surface textured design ensure excellent performance in low-light environment.

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

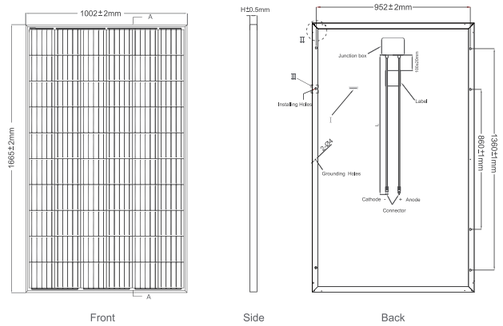
Durability Against Extreme Environmental Conditions
High salt mist and ammonia resistance certified by TUV NORD.

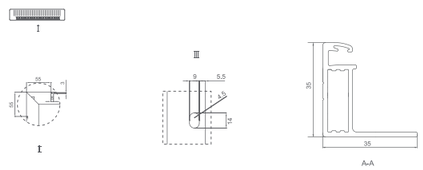
LINEAR PERFORMANCE WARRANTY

12 Year Product Warranty • 25 Year Linear Power Warranty

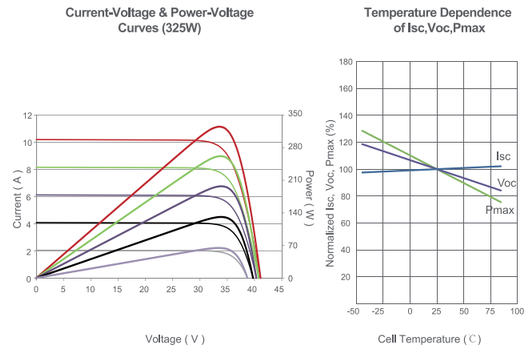


Engineering Drawings





Electrical Performance & Temperature Dependence



Packaging Configuration

(Two pallets = One stack)

31pcs/pallet , 62pcs/stack, 868pcs/40'HQ Container

Mechanical Characteristics

Cell Type	Mono PERC 158.75×158.75mm
No.of cells	60 (6×10)
Dimensions	1665×1002×35mm (65.55×39.45×1.38 inch)
Weight	19.0 kg (41.9 lbs)
Front Glass	3.2mm, Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP67 Rated
Output Cables	TÜV 1×4.0mm², Length 900mm or Customized Length

SPECIFICATIONS

Module Type	JKM315M-60		JKM320M-60		JKM325M-60		JKM330M-60		JKM335M-60	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	315Wp	235Wp	320Wp	239Wp	325Wp	242Wp	330Wp	246Wp	335Wp	250Wp
Maximum Power Voltage (Vmp)	33.2V	31.2V	33.4V	31.4V	33.6V	31.6V	33.8V	31.8V	34.0V	32.0V
Maximum Power Current (Imp)	9.49A	7.56A	9.59A	7.62A	9.68A	7.66A	9.77A	7.74A	9.87A	7.82A
Open-circuit Voltage (Voc)	40.7V	37.6V	40.9V	37.8V	41.1V	38.0V	41.3V	38.2V	41.5V	38.4V
Short-circuit Current (Isc)	10.04A	8.33A	10.15A	8.44A	10.20A	8.54A	10.31A	8.65A	10.36A	8.74A
Module Efficiency STC (%)	18.88%		19.18%		19.48%		19.78%		20.08%	
Operating Temperature (℃)	-40℃~+85℃									
Maximum System Voltage	1000VDC (IEC)									
Maximum Series Fuse Rating	20A									
Power Tolerance	0~+3%									
Temperature Coefficients of Pmax	-0.37%/℃									
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380-400 Watt

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Positive power tolerance of 0~+3%

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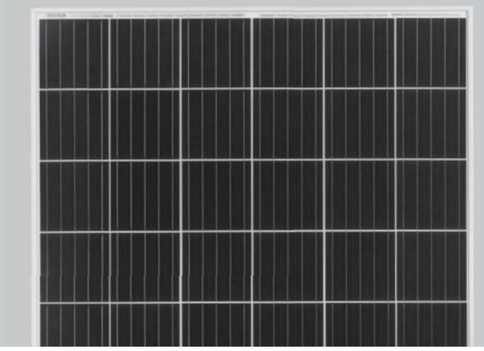
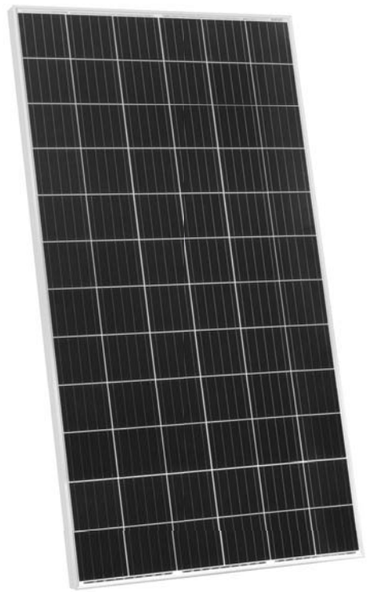
IEC61215, IEC61730, UL1703 certified product

PERC





KEY FEATURES

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High Efficiency

Higher module conversion efficiency (up to 20.17%) benefit from Passivated Emmiter Rear Contact (PERC) technology.

PID Resistance

Excellent Anti-PID performance guarantee limited power degradation for mass production.

Low-light Performance:

Advanced glass and surface texturing allow for excellent performance in low-light environment.

Severe Weather Resilience

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

Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance certified by TUV NORD.

LINEAR PERFORMANCE WARRANTY

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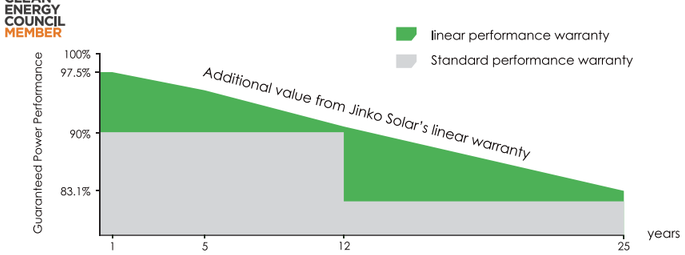
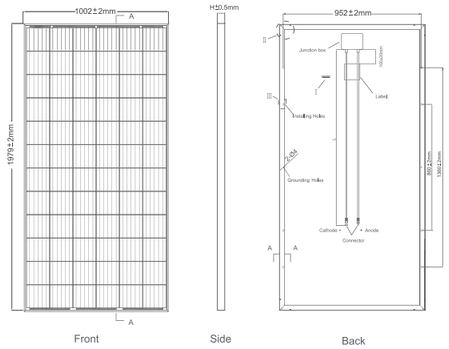
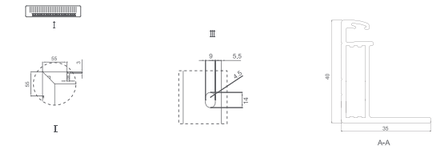
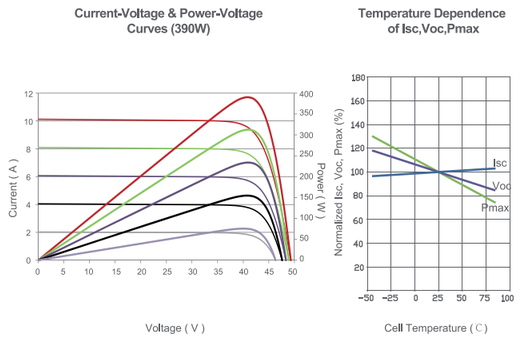


Engineering Drawings





Electrical Performance & Temperature Dependence



Mechanical Characteristics

Cell Type	Mono PERC 158.75×158.75mm
No.of cells	72 (6×12)
Dimensions	1979×1002×40mm (77.91×39.45×1.57 inch)
Weight	22.5 kg (49.6 lbs)
Front Glass	3.2mm, Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP67 Rated
Output Cables	TÜV 1×4.0mm², Length 1200mm or Customized Length

Packaging Configuration

(Two pallets=One stack)

27pcs/pallet, 54pcs/stack, 594pcs/40'HQ Container

SPECIFICATIONS

Module Type	JKM380M-72		JKM385M-72		JKM390M-72		JKM395M-72		JKM400M-72	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	380Wp	286Wp	385Wp	290Wp	390Wp	294Wp	395Wp	298Wp	400Wp	302Wp
Maximum Power Voltage (Vmp)	40.5V	38.6V	40.8V	38.8V	41.1V	39.1V	41.4V	39.3V	41.7V	39.6V
Maximum Power Current (Imp)	9.39A	7.42A	9.44A	7.48A	9.49A	7.54A	9.55A	7.60A	9.60A	7.66A
Open-circuit Voltage (Voc)	48.9V	47.5V	49.1V	47.7V	49.3V	48.0V	49.5V	48.2V	49.8V	48.5V
Short-circuit Current (Isc)	9.75A	7.88A	9.92A	7.95A	10.12A	8.02A	10.23A	8.09A	10.36A	8.16A
Module Efficiency STC (%)	19.16%		19.42%		19.67%		19.92%		20.17%	
Operating Temperature (℃)	-40℃~+85℃									
Maximum System Voltage	1000VDC (IEC)									
Maximum Series Fuse Rating	20A									
Power Tolerance	0~+3%									
Temperature Coefficients of Pmax	-0.37%/℃									
Temperature Coefficients of Voc	-0.28%/℃									
Temperature Coefficients of Isc	0.048%/℃									
Nominal Operating Cell Temperature (NOCT)	45±2℃									

STC: Irradiance 1000W/m² Cell Temperature 25°C AM=1.5

NOCT: Irradiance 800W/m² Ambient Temperature 20°C AM=1.5 Wind Speed 1m/s

* Power measurement tolerance: ± 3%