

Bifacial HC 72M 520-540 Watt

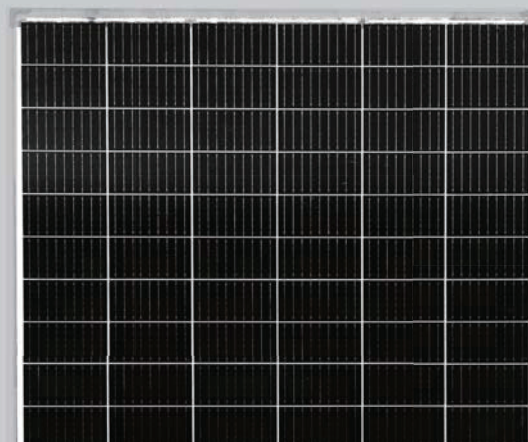
MONOCRYSTALLINE MODULE

Positive power tolerance of 0~+3%

ISO9001:2015, ISO14001:2015, ISO45001:2018
certified factory.

IEC61215, IEC61730, certified products.

TIGER Pro



KEY FEATURES



Multi Busbar Solar Cell

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



PID Resistance

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



Higher Lifetime Power Yield:

0.45% annual power degradation
30 year linear power warranty



Light-weight design:

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



Higher power output:

Module power increases 5-25% generally (per different reflective condition)
lower LCOE and higher IRR



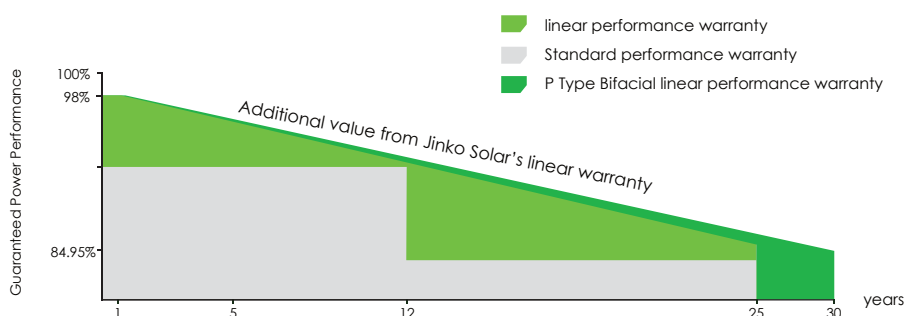
Better low-light performance:

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

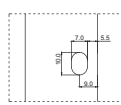
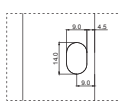
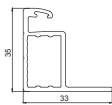
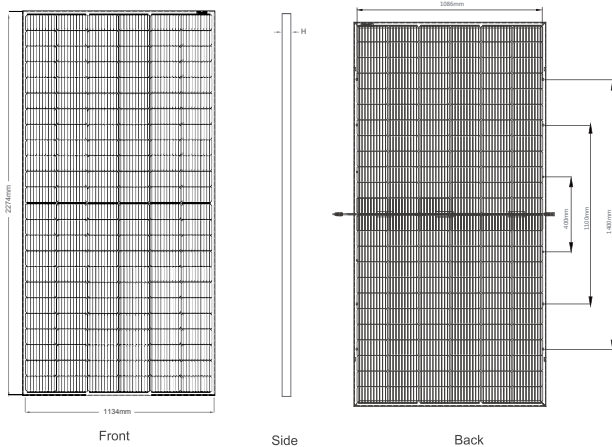


LINEAR PERFORMANCE WARRANTY

12 Year Product Warranty • 30 Year Linear Power Warranty
0.45% Annual Degradation Over 30 years



Engineering Drawings



Length: $\pm 2\text{mm}$
Width: $\pm 2\text{mm}$
Height: $\pm 1\text{mm}$
Row Pitch: $\pm 2\text{mm}$

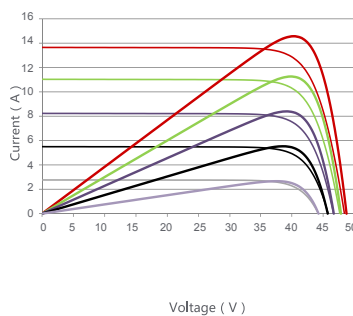
Packaging Configuration

(Two pallets = One stack)

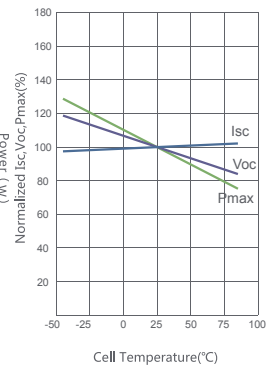
31pcs/pallets, 62pcs/stack, 620pcs/ 40'HQ Container

Electrical Performance & Temperature Dependence

Current-Voltage & Power-Voltage Curves (520W)



Temperature Dependence of I_{sc} , V_{oc} , P_{max}



Mechanical Characteristics

Cell Type P type Mono-crystalline

No. of cells 144 (6×24)

Dimensions 2274×1134×35mm (89.53×44.65×1.38 inch)

Weight 29.4 kg (64.6 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 1×4.0mm²
(+): 290mm, (-): 145 mm or Customized Length

SPECIFICATIONS

Module Type	JKM520M-72HL4-TV		JKM525M-72HL4-TV		JKM530M-72HL4-TV		JKM535M-72HL4-TV		JKM540M-72HL4-TV	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	520Wp	387Wp	525Wp	391Wp	530Wp	394Wp	535Wp	398Wp	540Wp	402Wp
Maximum Power Voltage (Vmp)	40.22V	37.42V	40.36V	37.56V	40.49V	37.70V	40.63V	37.84V	40.76V	37.97V
Maximum Power Current (Imp)	12.93A	10.34A	13.01A	10.40A	13.09A	10.46A	13.17A	10.52A	13.25A	10.58A
Open-circuit Voltage (Voc)	48.72V	45.99V	48.86V	46.12V	48.99V	46.24V	49.13V	46.37V	49.26V	46.50V
Short-circuit Current (Isc)	13.61A	10.99A	13.69A	11.06A	13.77A	11.12A	13.85A	11.19A	13.93A	11.25A
Module Efficiency STC (%)	20.17%		20.36%		20.55%		20.75%		20.94%	
Operating Temperature(°C)	-40°C~~+85°C									
Maximum system voltage	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									
Refer. Bifacial Factor	70±5%									

BIFACIAL OUTPUT-REAR SIDE POWER GAIN

		546Wp	551Wp	557Wp	562Wp	567Wp
5%	Maximum Power (P_{max})	546Wp	551Wp	557Wp	562Wp	567Wp
	Module Efficiency STC (%)	21.17%	21.38%	21.58%	21.78%	21.99%
15%	Maximum Power (P_{max})	598Wp	604Wp	610Wp	615Wp	621Wp
	Module Efficiency STC (%)	23.19%	23.41%	23.64%	23.86%	24.08%
25%	Maximum Power (P_{max})	650Wp	656Wp	663Wp	669Wp	675Wp
	Module Efficiency STC (%)	25.21%	25.45%	25.69%	25.93%	26.18%

* 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: $\pm 3\%$

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

JKM520-540M-72HL4-TV-A1-EN