

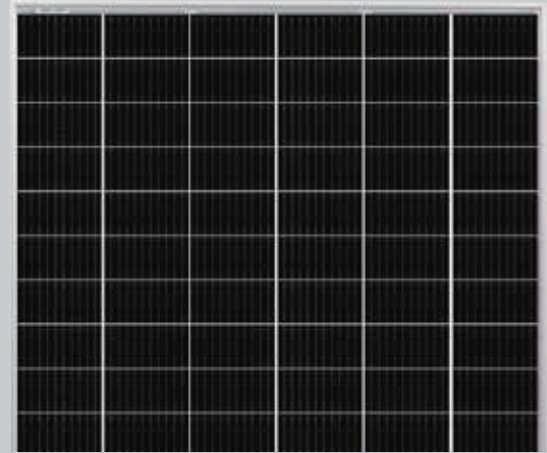
# 72M HC 520-540 Watt

## MONOCRYSTALLINE MODULE

Positive power tolerance of 0~+3%

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

IEC61215, IEC61730, certified products.



### 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:

0.55% annual power degradation  
25 year linear power warranty



#### 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).

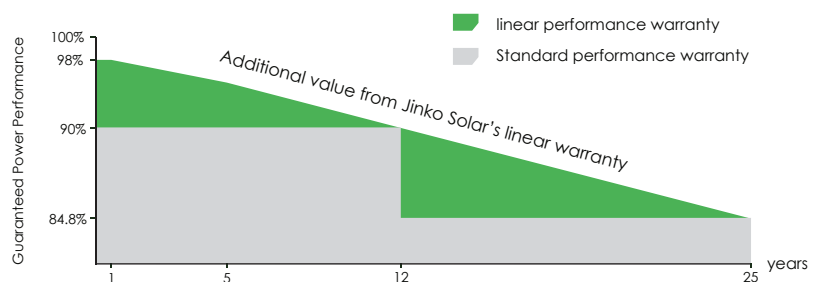


#### Durability Against Extreme Environmental Conditions

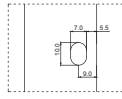
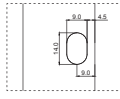
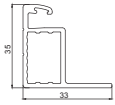
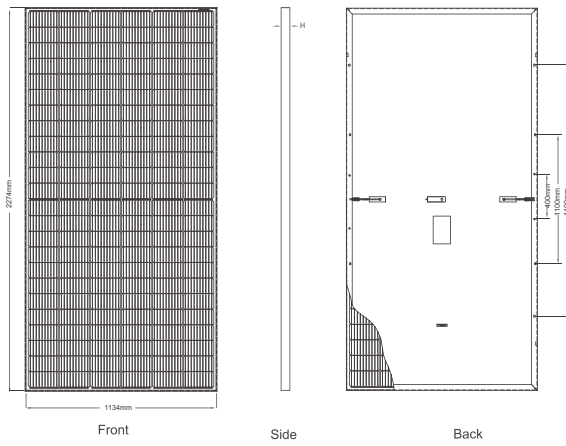
High salt mist and ammonia resistance certified by TUV NORD.

### LINEAR PERFORMANCE WARRANTY

12 Year Product Warranty • 25 Year Linear Power Warranty  
0.55% Annual Degradation Over 30 years



## Engineering Drawings



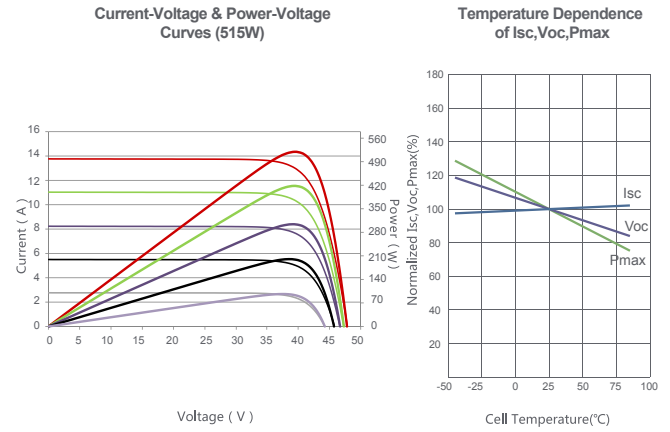
Length:  $\pm 2\text{mm}$   
Width:  $\pm 2\text{mm}$   
Height:  $\pm 1\text{mm}$   
Row Pitch:  $\pm 2\text{mm}$

## Packaging Configuration

(Two pallets = One stack)

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

## Electrical Performance & Temperature Dependence



## 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 (64.8 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><br>(+): 250mm, (-): 150 mm or Customized Length    |

## SPECIFICATIONS

| Module Type                               | JKM520M-72HL4-V |        | JKM525M-72HL4-V |        | JKM530M-72HL4-V |        | JKM535M-72HL4-V |        | JKM540M-72HL4-V |        |
|---|-----------------|--------|-----------------|--------|-----------------|--------|-----------------|--------|-----------------|--------|
|   | 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)               | 40.47V          | 37.63V | 40.61V          | 37.78V | 40.74V          | 37.92V | 40.88V          | 38.05V | 41.01V          | 38.19V |
| Maximum Power Current (Imp)               | 12.85A          | 10.28A | 12.93A          | 10.34A | 13.01A          | 10.40A | 13.09A          | 10.46A | 13.17A          | 10.52A |
| Open-circuit Voltage (Voc)                | 48.99V          | 46.24V | 49.13V          | 46.37V | 49.26V          | 46.50V | 49.40V          | 46.63V | 49.53V          | 46.75V |
| Short-circuit Current (Isc)               | 13.53A          | 10.93A | 13.61A          | 10.99A | 13.69A          | 11.06A | 13.77A          | 11.12A | 13.85A          | 11.19A |
| 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          |        |                 |        |                 |        |                 |        |                 |        |

\* 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:  $\pm 3\%$