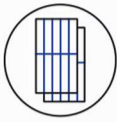




(182mm mono TOPCon half-cell, high-efficiency monocrystalline module)

# 565-585W 0-5W Positive Tolerance



### MBB&SMBB Half-cut Cell Technology

New circuit design, lower internal current, and lower Rs loss.



### High Power Density

A new generation of monocrystalline products with reduced resistive losses for greater power output.



### Mechanical Properties

An aluminum frame in special design for better mechanical properties and more efficient installation.



### Excellent Weather Resistance

The solar modules can meet the IEC standard requirements with strong resistant to risks such as salt spray, ammonia gas, dust, snail marks and electric potential induced attenuation.

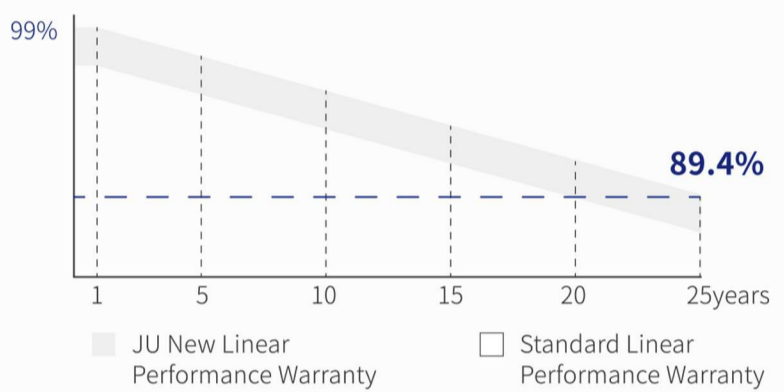


### 4 Times 100% EL Detection

Guarantee no micro cracks



#### PRODUCT QUALITY SYSTEM & CERTIFICATION



**12years** Material & process Warranty

**25years** Linear Performance Warranty

**1%** Linear Power Degradation in the First Year

**0.4%** Linear Power Degradation Every Year

## ELECTRICAL PROPERTIES

**SM-182T-72H 144PCS**

**STC** : irradiance, 1000W/m<sup>2</sup>; cell temperature, 25°C; spectral range, AM1.5

**NOCT** : irradiance, 800 W/m<sup>2</sup>; ambient temperature, 20 °C; spectral range, AM1.5; wind speed, 1m/s

|   | STC                    | NOCT  | STC    | NOCT  | STC    | NOCT  | STC    | NOCT  | STC    | NOCT  |
|---|------------------------|-------|--------|-------|--------|-------|--------|-------|--------|-------|
| Maximum power - P <sub>mp</sub> (W)             | 565                    | 425   | 570    | 429   | 575    | 432   | 580    | 436   | 585    | 440   |
| Open-circuit voltage - V <sub>oc</sub> (V)      | 50.87                  | 48.32 | 51.07  | 48.51 | 51.27  | 48.70 | 51.47  | 48.89 | 51.67  | 49.08 |
| Short-circuit current - I <sub>sc</sub> (A)     | 14.19                  | 11.46 | 14.25  | 11.50 | 14.31  | 11.55 | 14.37  | 11.60 | 14.43  | 11.65 |
| Maximum operating voltage - V <sub>mp</sub> (V) | 42.14                  | 39.52 | 42.29  | 39.65 | 42.44  | 39.78 | 42.59  | 39.87 | 42.74  | 40.04 |
| Maximum operating current - I <sub>mp</sub> (A) | 13.41                  | 10.75 | 13.48  | 10.81 | 13.55  | 10.87 | 13.62  | 10.94 | 13.69  | 10.98 |
| Module conversion efficiency - η <sub>m</sub>   | 21.86%                 |       | 22.06% |       | 22.25% |       | 22.44% |       | 22.64% |       |
| Power tolerance (W)                             | (0, +5)                |       |        |       |        |       |        |       |        |       |
| Mechanical load                                 | Front5400Pa/Back2400Pa |       |        |       |        |       |        |       |        |       |
| Maximum system voltage (V)                      | 1500                   |       |        |       |        |       |        |       |        |       |
| Maximum series fuse rating (A)                  | 25                     |       |        |       |        |       |        |       |        |       |
| Operating temperature                           | -40~+85°C              |       |        |       |        |       |        |       |        |       |

## STRUCTURAL CHARACTERISTICS

|                          |   |
|--------------------------|---|
| Module dimensions(L*W*H) | 2279 x 1134 x 35mm                          |
| Weight                   | 28.9kg                                      |
| Cell quantity            | 144PCS                                      |
| Cell model               | TOPCon Monocrystalline182 x 91mm            |
| Glass                    | 3.2mm AR, High Transmission, Tempered Glass |
| Frame                    | Anodized aluminium alloy                    |
| Junction box             | IP68 Rated                                  |
| Output line              | 4.0mm <sup>2</sup> , wire length 300mm      |
| Connector                | MC4 Compatible                              |

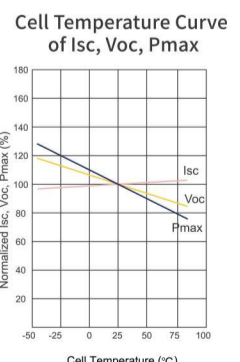
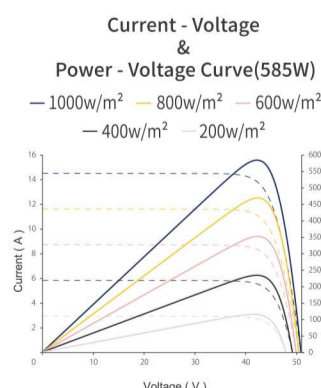
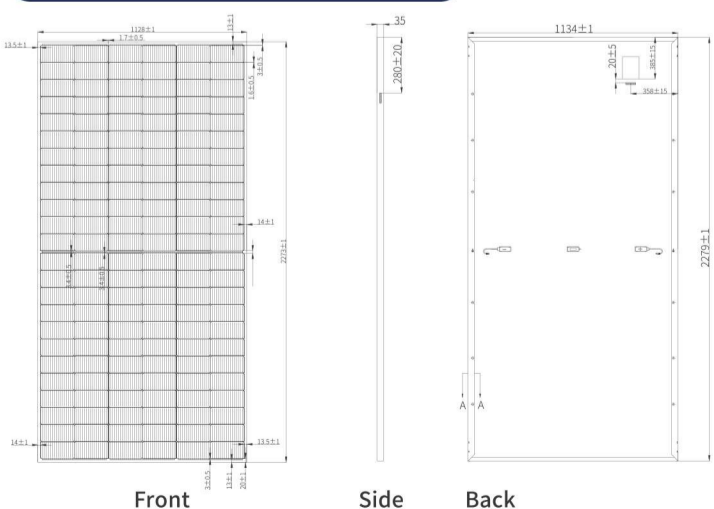
## TEMPERATURE CHARACTERISTIC

|   |              |
|---|--------------|
| Temperature coefficient (P <sub>max</sub> ) | -0.30% / °C  |
| Temperature coefficient (V <sub>oc</sub> )  | -0.25% / °C  |
| Temperature coefficient (I <sub>sc</sub> )  | +0.046% / °C |
| NMOT  | 43±2°C       |

## PACKAGING

|                 |      |
|-----------------|------|
| Container       | 40HQ |
| PCS / Pallet    | 31   |
| PCS / Container | 620  |

## PRODUCT ASSEMBLY DRAWING(mm)



20GW OEM/ODM Solar Customization

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