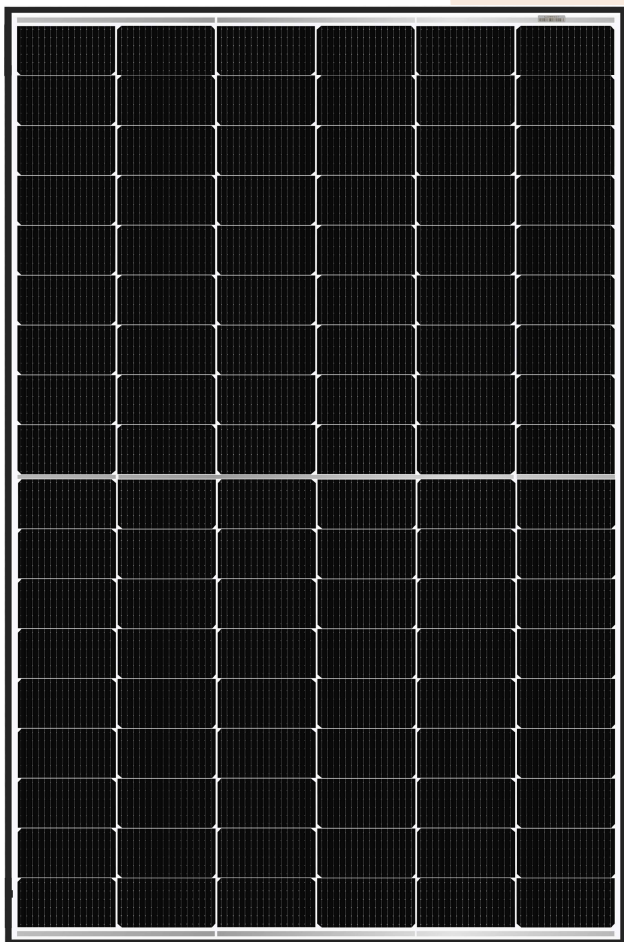


DXM8-54H**N Mono****DXM8-54H 440W****DXM8-54H 450W****DXM8-54H 455W****Classic TOPCon Module**

## ○ Super Multi-Busbar Technology

Sub-millimeter level Precision welding reduces cell crack and micro-cracks, enhancing durability and performance.

## ○ Low Degradation

N-TOPCon technology extends a 30 years linear performance warranty, safeguarding consumers' ROI.

## ○ Engineered for Extremes

Third party tested for 2400Pa back and 5400Pa front loads; resistant to damp heat.

## Tech Specs:

|                                                     | STC                 |        |        |
|-----------------------------------------------------|---------------------|--------|--------|
| Rated Power(Pmax):                                  | 440W                | 450W   | 455W   |
| Maximum Power (Pmax):                               | 440W                | 450W   | 455W   |
| Rated Voltage at Pmax (Vmp):                        | 32.0V               | 32.2V  | 32.3V  |
| Rated Current at Pmax (Imp):                        | 13.75A              | 13.98A | 14.09A |
| Open-Circuit Voltage (Voc ± 3.5%):                  | 38.7V               | 39.1V  | 39.3V  |
| Short-Circuit Current (Isc ± 5.0%):                 | 14.46A              | 14.62A | 14.70A |
| Module Efficiency (nm):                             | 22.5%               | 23.0%  | 23.3%  |
| Maximum System Voltage:                             | 1500VDC             |        |        |
| Safety Class:                                       | Class II            |        |        |
| Fire Resistance Class:                              | Class C             |        |        |
| Maximum Over-Current Rating:                        | 25A                 |        |        |
| Operating Temperature:                              | 85% Rh, -40℃ ~ +85℃ |        |        |
| Mechanical Load (Front):                            | +5400Pa             |        |        |
| Mechanical Load (Back):                             | -2400Pa             |        |        |
| Maximum Hailstone Impact (Impact Velocity @ 23m/s): | 25mm                |        |        |
| Power Sorting Tolerance:                            | ± 5W                |        |        |
| Power Measurement Tolerance:                        | ± 3.5%              |        |        |

|  | NOCT    |         |         |
|--|---------|---------|---------|
|  | 440W    | 450W    | 455W    |
|  | 330.95W | 338.47W | 342.23W |
|  | 30.07V  | 30.26V  | 30.36V  |
|  | 11.01A  | 11.20A  | 11.28A  |
|  | 36.72V  | 37.10V  | 37.29V  |
|  | 11.69A  | 11.82A  | 11.88A  |

- STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25℃, Air Mass AM1.5 (According to EN60904-3)
- NOCT: Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20℃, Wind Speed 1 m/s
- Average efficiency reduction or 4.5% at 200W/m<sup>2</sup> according to EN60904-1

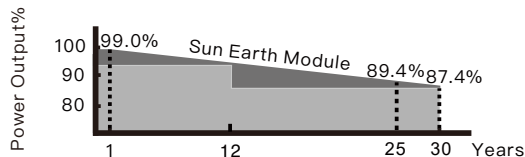
[T98] max value: 70 degrees Celsius

## Construction Specification:

|                                |                                              |
|--------------------------------|----------------------------------------------|
| Front Cover:                   | Anti-Reflection Coating Glass/3.2mm          |
| Cell:                          | 108Pieces mono-crystalline n-type solar cell |
| Anodised Aluminum Alloy Frame: | ● Silver ● Black                             |
| Junction Box:                  | Protection rating IP68                       |
| Cable:                         | 4mm <sup>2</sup> PV cable                    |
| Cable Length:                  | (+):400mm, (-):300mm; or customised          |
| Connector Manufacturer:        | Zhejiang Forsol Energy Co., Ltd              |
| Connector Model Number:        | FC4-4                                        |
| Dimension(L*W*H):              | 1722×1134×30mm                               |
| Weight:                        | 20.5±3%kg                                    |
| Country of manufacturer:       | China                                        |

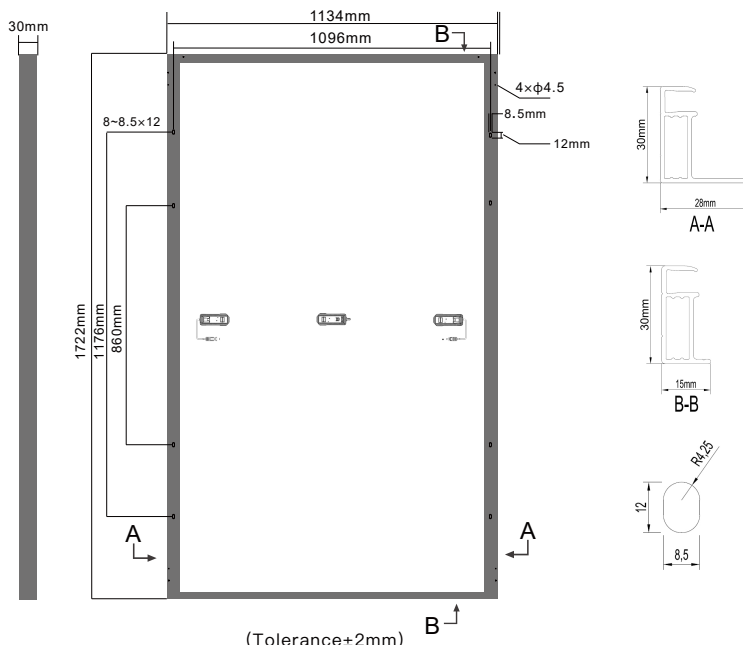
## Packaging:

|            |                                                        |
|------------|--------------------------------------------------------|
| Container: | 36 pcs/pallets, 72 pcs/stack, 936 pcs/ 40'HQ Container |
|------------|--------------------------------------------------------|



\*Please refer to Sun Earth Product Warranty for details

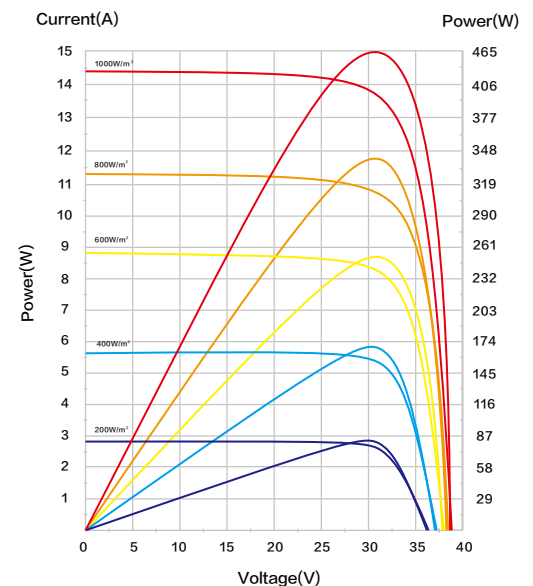
## Dimensions



## Thermal Characteristics:

|                                            |          |
|--------------------------------------------|----------|
| Nominal Operating Cell Temperature (NOCT): | 45 ± 2℃  |
| Temperature Coefficient of Pmax (vPmp):    | -0.29%/℃ |
| Temperature Coefficient of Voc (BVoc):     | -0.23%/℃ |
| Temperature Coefficient of Isc (alsc):     | +0.04%/℃ |

## I-V Curve(420W~455W)



## Temperature Dependence of Isc, Voc, Pmax

