

# **O** DXM8-54HBG

## **N Dual Glass** **410W~455W**

**Bifacial TOPCon Module  
with Dual Glass**



### **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-year linear performance warranty, safeguarding consumers' ROI.

### **Engineered for Extremes**

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

### **PID Free**

Guaranteed no Potential Induced Degradation, ensuring consistent performance.

### **Fire Safety Certified**

Module certificated for Class A Fire Resistance Rating (UL 790) for superior safety.

### **Bi-facial Power**

Achieves up to 15% additional back side power gain with excellent temperature efficiency.

## Tech Specs:

	STC						BNPI					
Rated Power(Pmax):	410W	420W	430W	440W	450W	455W	410W	420W	430W	440W	450W	455W
Maximum Power (Pmax):	410W	420W	430W	445W	450W	455W	453W	464W	473W	486W	497W	502W
Rated Voltage at Pmax (Vmp):	31.3V	31.6V	31.8V	32.0V	32.2V	32.3V	33.35V	33.49V	33.64V	33.95V	34.17V	34.39V
Rated Current at Pmax (Imp):	13.10A	13.29A	13.52A	13.75A	13.98A	14.09A	13.56A	13.86A	14.06A	14.31A	14.53A	14.60A
Open-Circuit Voltage (Voc):	37.4V	37.9V	38.3V	38.7V	39.1V	39.3V	39.51V	39.84V	40.22V	40.63V	40.89V	41.11V
Short-Circuit Current (Isc):	13.92A	14.10A	14.29A	14.46A	14.62A	14.70A	14.51A	14.75A	14.99A	15.23A	15.47A	15.59A
Module Efficiency (nm):	21.0%	21.5%	22.0%	22.5%	23.0%	23.3%						
Maximum System Voltage:	1500VDC											
Application Class:	Class A											
Fire Resistance Class:	Class A											
Maximum Over-Current Rating:	30A											
Operating Temperature:	85% Rh, -40°C ~ +85°C											
Maximum Snow Loads(Front):	5400Pa											
Maximum Wind Loads (Front&Back):	2400Pa											
Maximum Hailstone Impact (Impact Velocity @23m/s):	25mm											

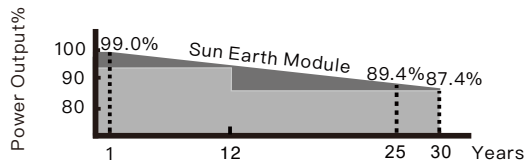
- STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM1.5 (According to EN60904-3)
- BNPI: Irradiance: front 1000W/m<sup>2</sup>, rear 135W/m<sup>2</sup>, Cell Temperature 25°C, AM=1.5
- Average efficiency reduction or 4.5% at 200W/m<sup>2</sup> according to EN60904-1

## Construction Specification:

Front Cover:	Anti-Reflection Coating Glass/2.0mm
Back Cover:	Heat Strengthened Glass/2.0mm
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:	Protection rating IP68
Dimension(L*W*H):	1722 × 1134 × 30mm
Weight:	24.0 ± 3%kg

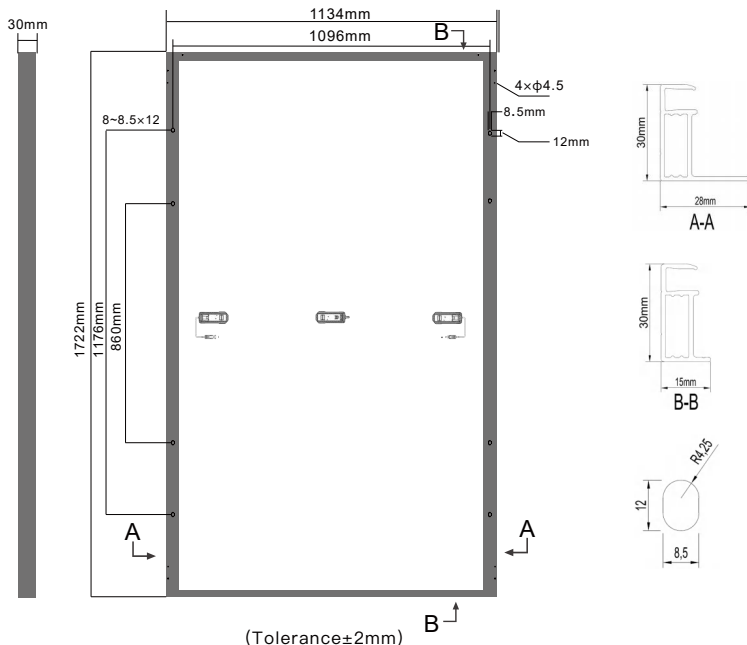
## Packaging:

Container:	36 pcs/pallets, 72 pcs/stack, 936 pcs/ 40'HQ Container
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\*Please refer to Sun Earth Product Warranty for details

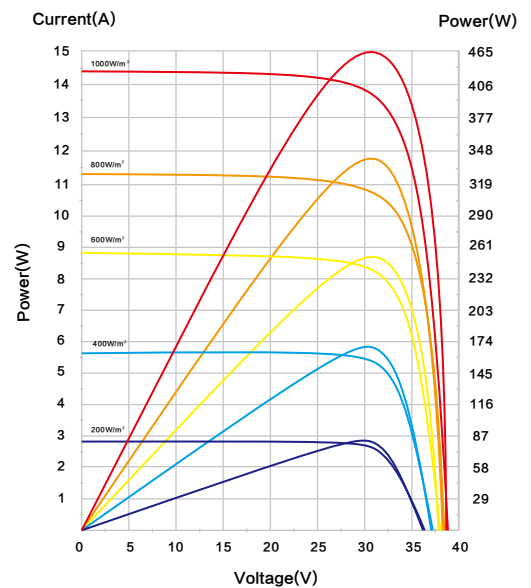
## Dimensions



## Thermal Characteristics:

Bifaciality Coefficient: φ Voc:	99 ± 5%
φ Isc:	80 ± 5%
φ Pmax:	80 ± 10%
Temperature Coefficient of Pmax (vPmp):	-0.29%/°C
Temperature Coefficient of Voc (BVoc):	-0.23%/°C
Temperature Coefficient of Isc (alsc):	+0.04%/°C

## I-V Curve(410W~455W)



## Temperature Dependence of Isc, Voc, Pmax

