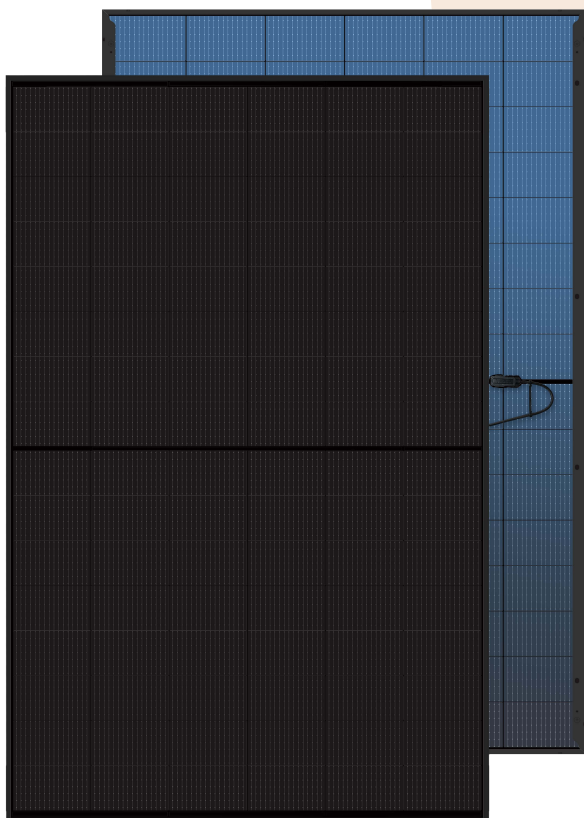




 DXM10-48HBG

N Dual Glass
450W~475W

**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 C 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

Rated Power(P _{max}):	450W	455W	460W	465W	470W	475W
Maximum Power (P _{max}):	450W	455W	460W	465W	470W	475W
Rated Voltage at P _{max} (V _{mp}):	30.45V	30.65V	30.85V	31.05V	31.25V	31.45V
Rated Current at P _{max} (I _{mp}):	14.78A	14.85A	14.92A	14.98A	15.04A	15.11A
Open-Circuit Voltage (V _{oc}):	36.08V	36.24V	36.40V	36.56V	36.72V	36.88V
Short-Circuit Current (I _{sc}):	15.64A	15.70A	15.76A	15.82A	15.88A	15.94A
Module Efficiency (nm):	22.5%	22.8%	23.0%	23.3%	23.5%	23.8%
Maximum System Voltage:	1500VDC					
Protection Class:	Class II					
Fire Resistance Class:	Class C					
Maximum Over-Current Rating:	35A					
Operating Temperature:	85% Rh, -40℃ ~ +85℃					
Maximum Snow Loads(Front):	5400Pa					
Maximum Wind Loads (Front&Back):	2400Pa					
Maximum Hailstone Impact (Impact Velocity @23m/s):	25mm					

BNPI

450W	455W	460W	465W	470W	475W
496W	501W	507W	512W	518W	523W
30.44V	30.64V	30.84V	31.04V	31.24V	31.44V
16.32A	16.40A	16.47A	16.54A	16.61A	16.68A
36.07V	36.23V	36.39V	36.55V	36.71V	36.87V
17.28A	17.35A	17.41A	17.48A	17.54A	17.61A

• STC: Irradiance 1000W/m², Cell Temperature 25℃, Air Mass AM1.5 (According to EN60904-3)

• BNPI: Irradiance: front 1000W/m², rear 135W/m², Cell Temperature 25℃, AM=1.5

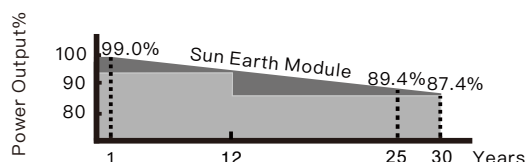
• Average efficiency reduction or 4.5% at 200W/m² according to EN60904-1

Construction Specification:

Front Cover:	Anti-Reflection Coating Glass/2.0mm
Back Cover:	Heat Strengthened Glass/2.0mm
Cell:	96Pieces mono-crystalline n-type solar cell
Anodised Aluminum Alloy Frame:	● Silver ● Black
Junction Box:	Protection rating IP68
Cable:	4mm ² PV cable
Cable Length:	(+):400mm, (-):300mm; or customised
Connector:	Protection rating IP68
Dimension(L*W*H):	1762 × 1134 × 30mm
Weight:	24.5 ± 3%kg

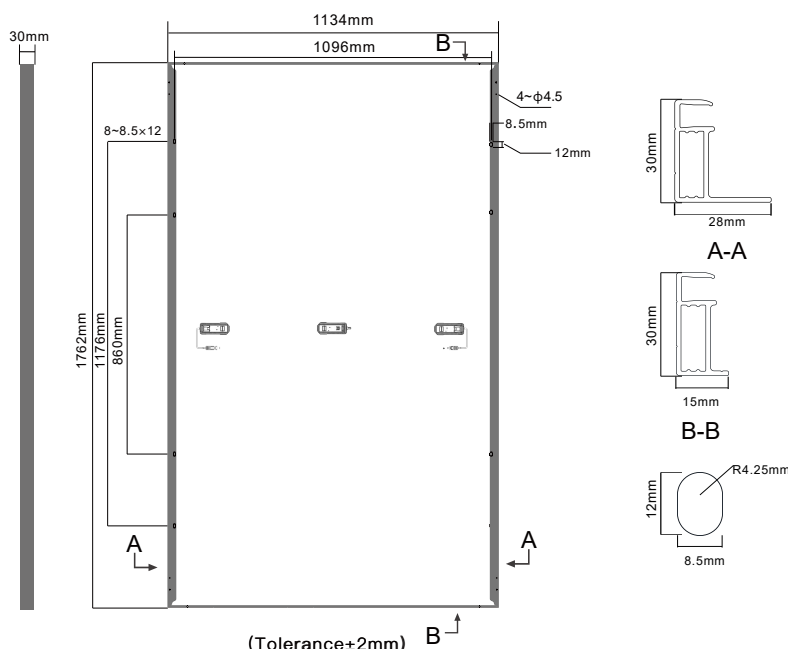
Packaging:

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



*Please refer to Sun Earth Product Warranty for details

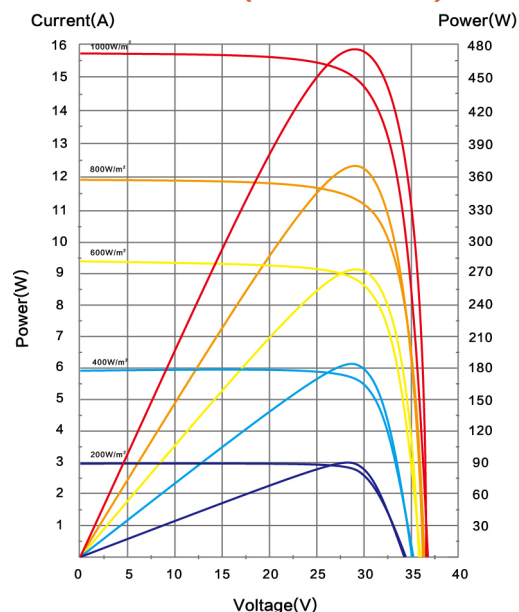
Dimensions



Thermal Characteristics:

Bifaciality Coefficient:	φ Voc: 99 ± 5 %, φ I _{sc} : 80 ± 10 %, φ P _{max} : 80 ± 10 %
Temperature Coefficient of P _{max} (vP _{mp}):	-0.29%/℃
Temperature Coefficient of Voc (BV _{oc}):	-0.23%/℃
Temperature Coefficient of I _{sc} (aI _{sc}):	+0.04%/℃

I-V Curve(450W~475W)



Temperature Dependence of I_{sc}, Voc, P_{max}

