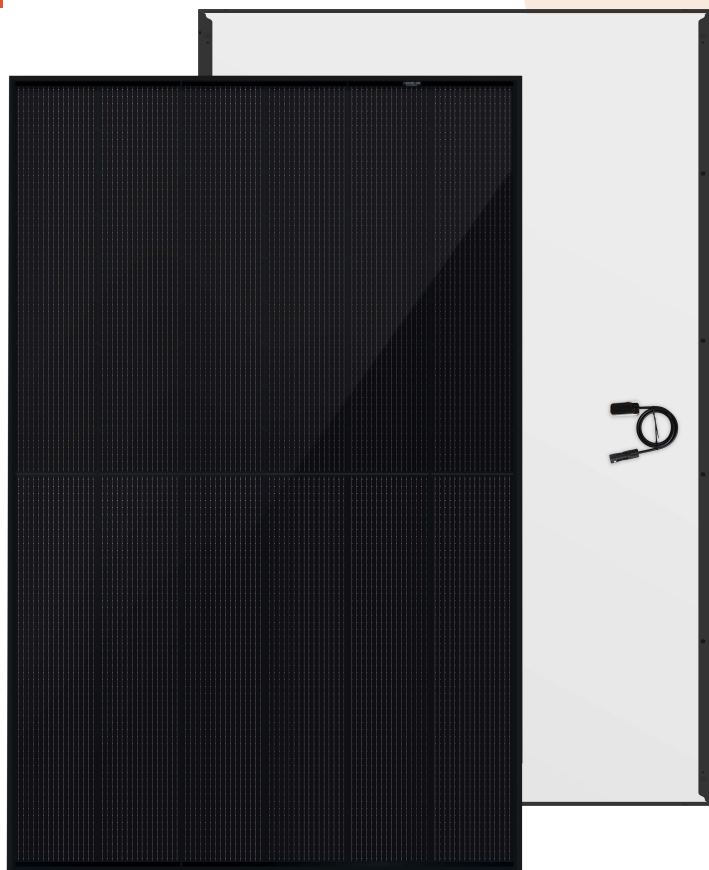


 DXM10-48H

N Mono Obsidian **450W~475W**

**Full Black Mono-Facial
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 and salt mist.

PID Free

Guaranteed no Potential Induced Degradation, ensuring consistent performance.

Tech Specs:

	STC						NOCT					
Rated Power(P _{max}):	450W	455W	460W	465W	470W	475W	450W	455W	460W	465W	470W	475W
Maximum Power (P _{max}):	450W	455W	460W	465W	470W	475W	344.32W	348.14W	351.97W	355.80W	359.62W	363.45W
Rated Voltage at P _{max} (V _{mp}):	30.45V	30.65V	30.85V	31.05V	31.25V	31.45V	28.70V	28.89V	29.07V	29.26V	29.45V	29.64V
Rated Current at P _{max} (I _{mp}):	14.78A	14.85A	14.92A	14.98A	15.04A	15.11A	12.00A	12.05A	12.11A	12.16A	12.21A	12.26A
Open-Circuit Voltage (V _{oc}):	36.08V	36.24V	36.40V	36.56V	36.72V	36.88V	34.32V	34.47V	34.62V	34.78V	34.93V	35.08V
Short-Circuit Current (I _{sc}):	15.64A	15.70A	15.76A	15.82A	15.88A	15.94A	12.62A	12.67A	12.72A	12.76A	12.81A	12.86A
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:	30A											
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											

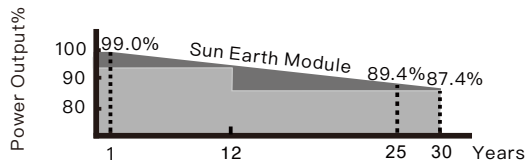
- STC: Irradiance 1000W/m², Cell Temperature 25℃, Air Mass AM1.5 (According to EN60904-3)
- NOCT: Irradiance 800W/m², Ambient Temperature 20℃, Wind Speed 1 m/s
- Average efficiency reduction or 4.5% at 200W/m² according to EN60904-1

Construction Specification:

Front Cover:	Anti-Reflection Coating Glass/3.2mm
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:	21.0±3%kg

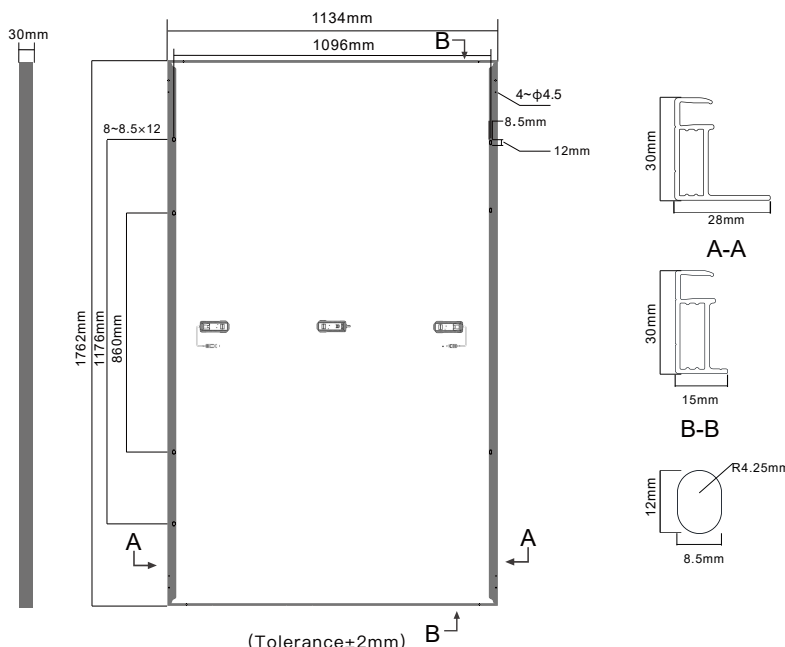
Packaging:

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

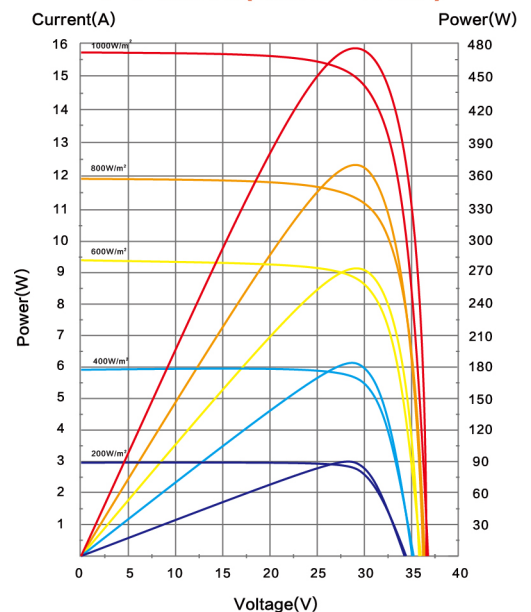
Dimensions



Thermal Characteristics:

Nominal Operating Cell Temperature (NOCT):	43±2℃
Temperature Coefficient of P _{max} (vP _{mp}):	-0.29%/℃
Temperature Coefficient of V _{oc} (BV _{oc}):	-0.23%/℃
Temperature Coefficient of I _{sc} (alsc):	+0.04%/℃

I-V Curve(450W~475W)



Temperature Dependence of I_{sc}, V_{oc}, P_{max}

