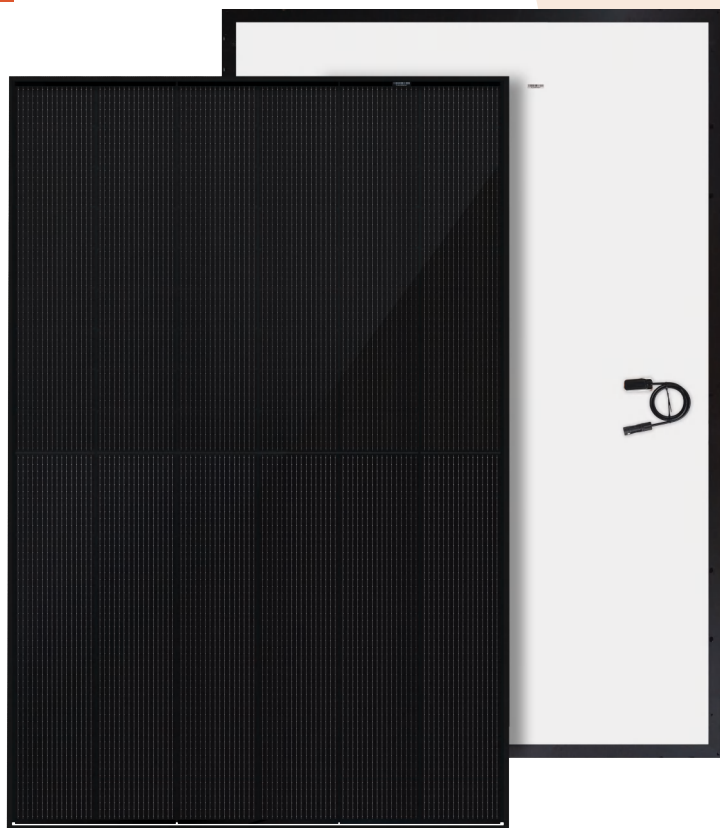


 DXM8-54H

N Mono Obsidian 410W~455W

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(Pmax):	410W	420W	430W	440W	450W	455W	410W	420W	430W	440W	450W	455W
Maximum Power (Pmax):	410W	420W	430W	440W	450W	455W	308.38W	315.90W	323.42W	330.95W	338.47W	342.23W
Rated Voltage at Pmax (Vmp):	31.3V	31.6V	31.8V	32.0V	32.2V	32.3V	29.42V	29.70V	29.89V	30.07V	30.26V	30.36V
Rated Current at Pmax (Imp):	13.10A	13.29A	13.52A	13.75A	13.98A	14.09A	10.49A	10.65A	10.83A	11.01A	11.20A	11.28A
Open-Circuit Voltage (Voc):	37.4V	37.9V	38.3V	38.7V	39.1V	39.3V	35.49V	35.96V	36.34V	36.72V	37.10V	37.29V
Short-Circuit Current (Isc):	13.92A	14.10A	14.29A	14.46A	14.62A	14.70A	11.25A	11.40A	11.55A	11.69A	11.82A	11.88A
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 C											
Maximum Over-Current Rating:	25A											
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											

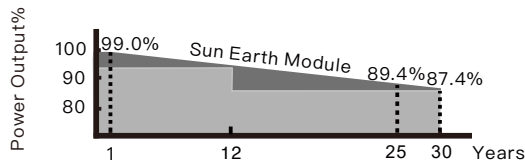
- STC: Irradiance 1000W/m², Cell Temperature 25℃, Air Mass AM1.5 (According to E N60904-3)
- NOCT: Irradiance 800W/m², Ambient Temperature 20℃, Wind Speed 1 m/s
- Average efficiency reduction or 4.5% at 200W/m² according to EN60904-1

Construction Specification:

Front Cover:	Anti-Reflection Coating Glass/3.2mm
Cell:	108Pieces 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) :	1722×1134×30mm
Weight:	20.5±3%kg

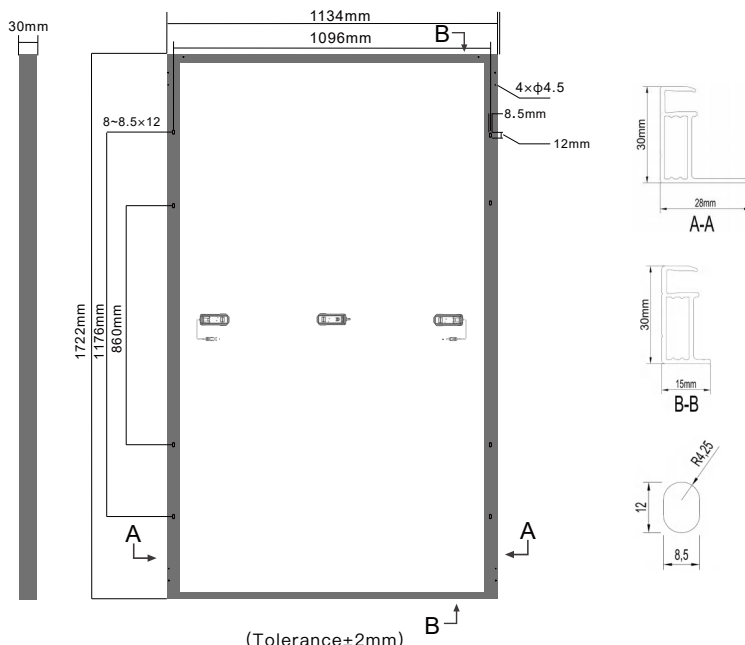
Packaging:

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

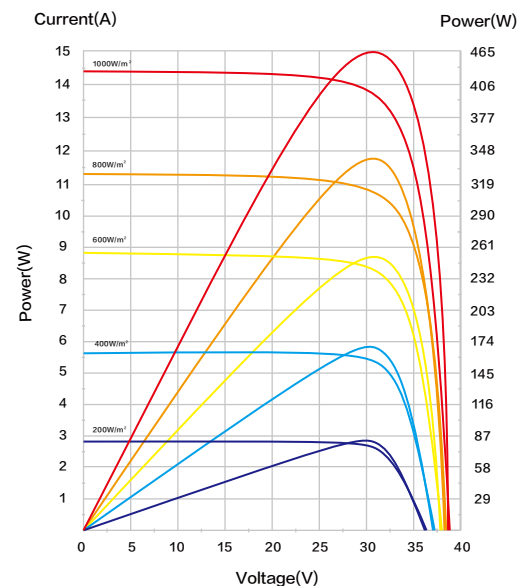
Dimensions



Thermal Characteristics:

Nominal Operating Cell Temperature (NOCT) :	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(410W~455W)



Temperature Dependence of Isc, Voc, Pmax

