

Applicable to Curved Roofs

455-475w

Flexible Module Series

N-TOPCON HIGH EFFICIENCY MONO 132-16BB-W-W

Bloomberg
NEW ENERGY FINANCE

Tier1

Lightweight

Optimized composite materials, 50% lighter at the same power

Half Cell, SMBB Technology

Series-then-parallel cell connection design, more reliable soldering technology

Low NOCT

As low as 43°C, improving the power generation efficiency

Easy Transportation and Installation

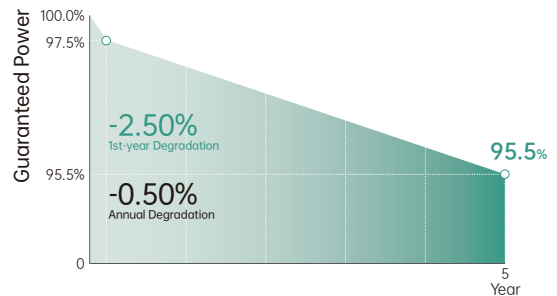
Original design making it far less costly for transportation and installation

Customization

Customization for various scenarios, high additional value

Superior Low Irradiance Performance

Excellent low irradiance performance, increase power generation in low-light conditions like mornings, evenings and cloudy days



5-year

Product Warranty

5-year

Performance Warranty

MANAGEMENT SYSTEM CERTIFICATES

ISO 9001

2015 / Quality management system

ISO 14001

2015 / Standards for environmental management system

ISO 45001

2018 / International standards for occupational health & safety

Electrical Typical Values

Model	PS455M8H-22/WLH		PS460M8H-22/WLH		PS465M8H-22/WLH		PS470M8H-22/WLH		PS475M8H-22/WLH	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Rated Power (Pmpp)	455	341.7	460	345.5	465	349.2	470	353.0	475	356.7
Rated Current (Impp)	12.06	9.72	12.15	9.79	12.24	9.86	12.32	9.93	12.41	9.99
Rated Voltage (Vmpp)	37.72	35.16	37.87	35.30	38.01	35.43	38.15	35.57	38.28	35.69
Short Circuit Current (Isc)	12.67	10.21	12.76	10.28	12.85	10.35	12.93	10.42	13.02	10.49
Open Circuit Voltage (Voc)	45.50	43.35	45.65	43.50	45.79	43.63	45.93	43.76	46.06	43.89
Module Efficiency (%)	19.90		20.10		20.30		20.60		20.80	

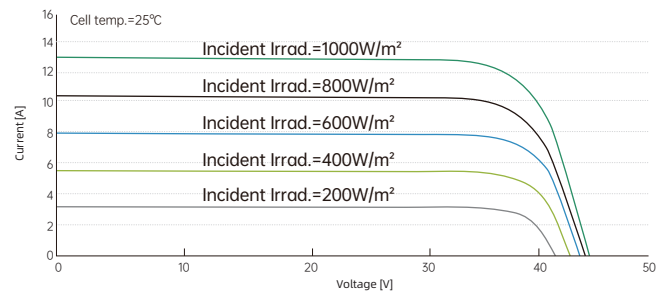
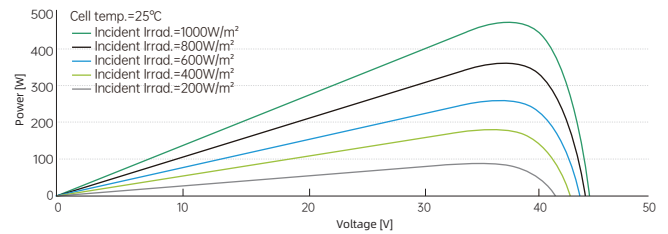
STC (Standard Testing Conditions): Irradiance 1000W/m², AM 1.5, Cell Temperature 25°C

NOCT (Nominal Operation Cell Temperature): Irradiance 800W/m², Ambient Temperature 20°C, Spectra at AM1.5, Wind at 1m/s

Mechanical Characteristics

Cell Type	P Type Monocrystalline
Dimension (L × W × H)	Length: 2148mm (84.57 inch) Width: 1134mm (44.65 inch) Height: 9mm (0.35 inch)
Weight	10.2kg (22.49 lbs)
Cable (Including Connector)	4mm ² (IEC), (+): 250mm, (-): 250mm or Customized Length
Junction Box	IP 68 Rated

Electrical Characteristics



Temperature Ratings

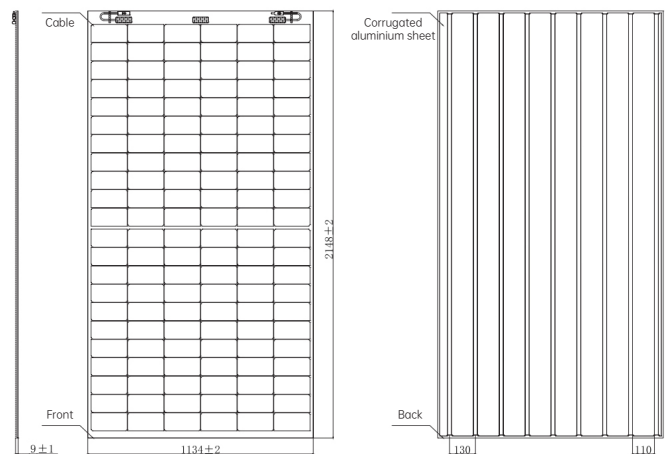
Voltage Temperature Coefficient	-0.262%/°C
Current Temperature Coefficient	+0.038%/°C
Power Temperature Coefficient	-0.341%/°C
Power Tolerance	0~+3%
NOCT	43±2°C

Absolute Maximum Rating

Operating Temperature	From -40 to + 85°C
Front Side Maximum Static Loading	5400Pa
Rear Side Maximum Static Loading	2400Pa
Maximum Series Fuse Rating	22A
Maximum System Voltage	DC 1500V

Packing Configuration

Container	40'HQ
Pieces/Container	972
Pcs/Pallet	54
Pallets/Container	18



Note:mm