

BIPV Module

28B-100 Watt / Flat Tile Full Black

N-TOPCON

Conversion Efficiency
16.22%

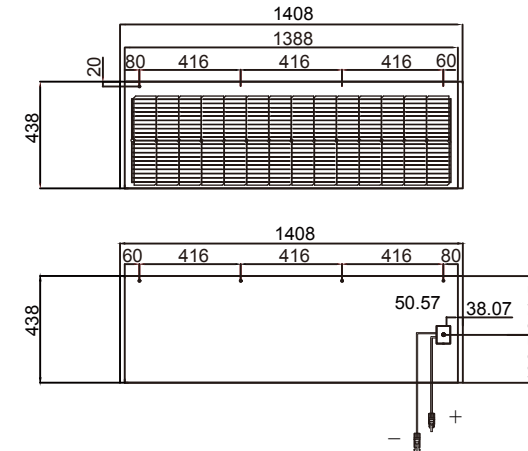
Maximum Power Output
70W/100W

Weight
8.5kg/pc

Quality Assurance

Product warranty **12** years
Power warranty **25** years

All black and borderless is designed for villas, homestays roofs.



All Dimensions in mm
The above drawing is a graphical representation of the product.

Electrical Characteristics (STC/NOCT)

Module Type	28B-100
	STC
Maximum Power- Pmax(W)	100
Open Circuit Voltage - Voc(V)	19.22
Short- Circuit Current - Isc(A)	6.30
Voltage at Pmax -Vmp(V)	16.66
Current at Pmax - Imp(A)	6.00
Module Efficiency -ηm(%)	16.22
Power Tolerance(W)	(0, +4.99W)
Maximum System Voltage(V)	1500Vdc (IEC / UL)
Maximum Series Fuse Rating (A)	15A

STC : Irradiance 1000W/m², Cell Temperature 25℃, Air Mass 1.5

NOCT : Irradiance 800W/m², Ambient Temperature 20℃, Air Mass1.5, Wind Speed 1m/s

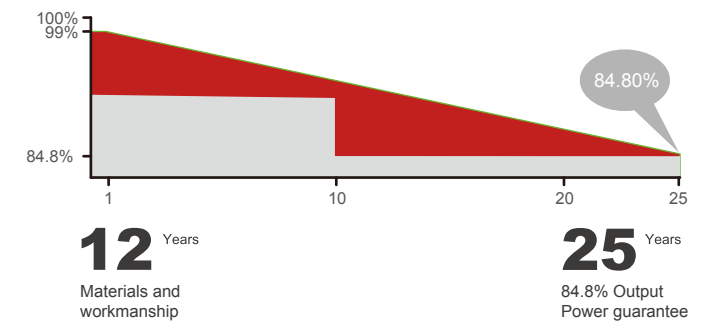
Mechanical Specifications

External Dimensions	1408x438x6.2mm
Weight	8.5kg
Solar Cells	Mono crystalline 182mm
Front Glass	3.2+2mm tempered glass
Frame	/
Junction Box	IP68
Output Cables	4.0mm², 900mm (+),900mm (-), length can be customized
Connector	MC4 Compatible
Mechanical Load	Front Side Max. 5400Pa, Rear Side Max. 2400Pa
Fire Protection Grade	A
Windproof Grade	15
Anti Hail Level	25mm

Temperature Characteristics

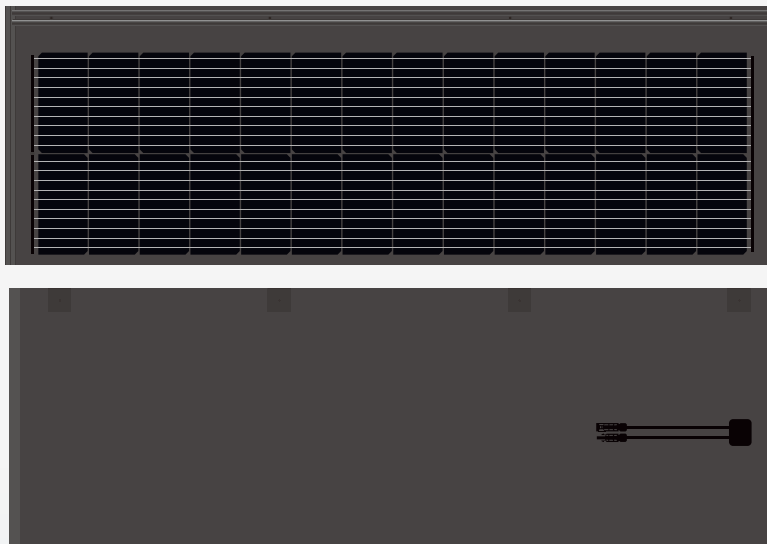
Pmax Temperature Coefficient	-0.3904%/℃
Voc Temperature Coefficient	-0.286%/℃
Isc Temperature Coefficient	+0.0268%/℃
Operating Temperature	-40~+85℃
Nominal Operating Cell Temperature(NOCT)	45±2℃

Linear Warranty



12 Years
Materials and workmanship

25 Years
84.8% Output Power guarantee



Half Cut Cell



Resists 35mm hail
Withstands 12-grade winds



25-year waterproof and
Rooftop safety guarantee



-5-8℃
Lower summer indoor
Temperatures by 5-8℃



-10%
Reduce energy consumption
By 10%



Modular design with standardized
prefabricated construction

Packing Configuration

Woden box	1490x1240x650mm
Container	40'HQ
Pieces per Wooden box	36
Box per Container	64
Pieces per Container	2304

Current-Voltage & Power-Voltage Curves (28B100)

