

# NHO120MNB

## 460-490 W

### Topcon Technology

### Half-Cut Cells Single-Glass Module



#### SMBB Technology

Better light trapping and current collection to improve module power output and reliability.



#### PID Resistance

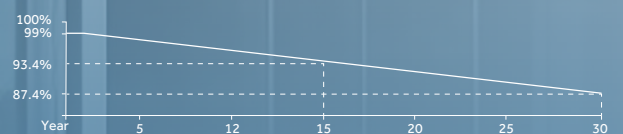
Excellent Anti-PID performance guarantee via optimized mass-production process and materials control.



#### Enhanced Mechanical Load

Certified to withstand: wind load(2400 Pascal) and snow load (5400 Pascal).

### WARRANTY



1% 1st-year Degradation

0.4% Annual Degradation Over 30 years

**15**  
years

Guarantee on product material and workmanship

**30**  
years

Linear Power output warranty

### CERTIFICATES

ISO 9001: 2015  
Quality Management System

IEC 61215 / IEC61730

ISO 14001: 2015  
Environmental Management System

ISO 45001: 2018  
Occupational Health &  
Safety Management System



\*Certification requirements vary in different markets, please consult with Nahui sales team for appropriate certification.

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Made in China

## ELECTRICAL DATA (STC)

Model Type	NHO120-460MNB	NHO120-465MNB	NHO120-470MNB	NHO120-475MNB	NHO120-480MNB	NHO120-485MNB	NHO120-490MNB
Peak Power (max)	460.00±3%	465.00±3%	470.00±3%	475.00±3%	480.00±3%	485.00±3%	490.00±3%
Power Tolerance	0~+3%	0~+3%	0~+3%	0~+3%	0~+3%	0~+3%	0~+3%
Maximum Power Voltage (Vmp)	34.72	34.89	35.05	35.21	35.37	35.53	35.70
Maximum Power Current (Imp)	13.25	13.33	13.41	13.49	13.57	13.65	13.73
Open Circuit Voltage (Voc)	42.05±3%	42.22±3%	42.38±3%	42.54±3%	42.70±3%	42.86±3%	43.03±3%
Short Circuit Current (Isc)	13.99±3%	14.07±3%	14.15±3%	14.23±3%	14.31±3%	14.39±3%	14.47±3%
Module Efficiency (%)	21.32	21.55	21.78	22.01	22.24	22.47	22.70

\*STC: irradiance 1000 W/m<sup>2</sup>, AM 1.5, and cell temperature of 25°C

## ELECTRICAL DATA (NMOT)

Model Type	NHO120-460MNB	NHO120-465MNB	NHO120-470MNB	NHO120-475MNB	NHO120-480MNB	NHO120-485MNB	NHO120-490MNB
Peak Power (max)	346.00	350.00	353.00	357.00	361.00	365.00	369.00
Maximum Power Voltage (Vmp)	32.60	32.77	32.94	33.10	33.26	33.42	33.58
Maximum Power Current (Imp)	10.61	10.67	10.73	10.79	10.85	10.91	10.99
Open Circuit Voltage (Voc)	39.94±3%	40.10±3%	40.25±3%	40.41±3%	40.57±3%	40.73±3%	40.89±3%
Short Circuit Current (Isc)	11.29±3%	11.36±3%	11.42±3%	11.49±3%	11.56±3%	11.63±3%	11.70±3%

\*NMOT: irradiance 800 W/m<sup>2</sup>, AM 1.5, ambient temperature 20°C, wind speed 1 m/s

## TEMPERATURE & MAXIMUM RATING

Maximum System Voltage (V)	1500 V
Maximum Series Fuse Rating (A)	25 A
Pmax Temperature Coefficients (W/°C)	-0.300 %/°C
Voc Temperature Coefficients (V/°C)	-0.250%/°C
Isc Temperature Coefficients (A/°C)	+0.046 %/°C
NMOT Nominal Module Operating Temperature (°C)	45±2°C
Operating and Storage Temperature (°C)	-40~+85°C

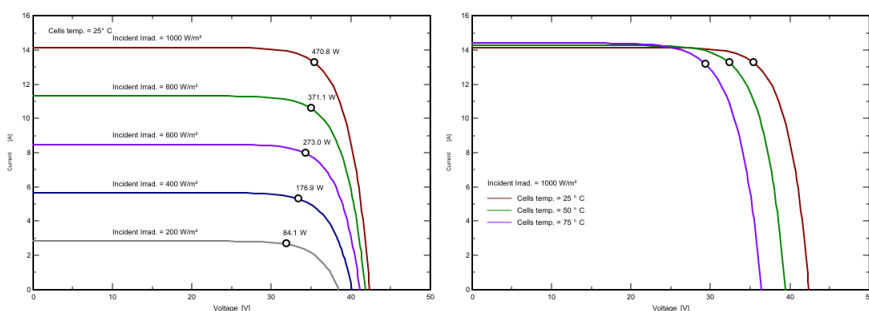
## MECHANICAL CHARACTERISTICS

Cell Type	182 x 91 N Type Mono
No. of Cells	120 (12 x 10)
Dimensions	1903 x 1134 x 30 mm
Weight	23.80 kg
Front Glass	3.2 mm high transmission, low iron, tempered glass
Frame	Anonized Aluminum Alloy
Junction box	IP68 3 diodes
Fire rating	Class C
Safety level	Class II
MaxWind Load/Snow Load	2400 Pa/5400 Pa
Cables	4.0mm <sup>2</sup> , Positive(+)350mm, Negative(-)350mm (Including MC4 connector)
Connector	RHC2xyzu(Renhe), PV-ST101(Hengda)

## PACKING WAY

20FT container	6 Packages/222 pcs
40HQ container	24 Packages/888 pcs

## I-V CURVES (470 W)



## PV DRAWINGS

