

NHO144MN

550-580 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

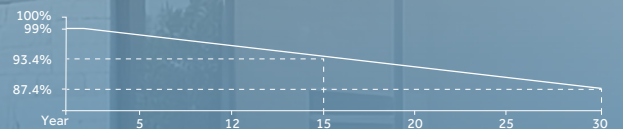
Excellent Anti-PID performance guarantee via optimized mass-production process and materials control.



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.

Made in China

Qingdao Nahui Photovoltaic New Energy Co., Ltd.
No. 57, No. 17 Jiujiang Road, Tongji Sub-District, Jimo
District, Qingdao, Shandong, P.R. China

ELECTRICAL DATA (STC)

Model Type	NHO144-550MN	NHO144-555MN	NHO144-560MN	NHO144-565MN	NHO144-570MN	NHO144-575MN	NHO144-580MN
Peak Power (max)	550.00±3%	555.00±3%	560.00±3%	565.00±3%	570.00±3%	575.00±3%	580.00±3%
Power Tolerance	0~+3%	0~+3%	0~+3%	0~+3%	0~+3%	0~+3%	0~+3%
Maximum Power Voltage (Vmp)	41.50	41.64	41.77	41.92	42.07	42.22	42.37
Maximum Power Current (Imp)	13.26	13.33	13.41	13.48	13.55	13.62	13.69
Open Circuit Voltage (Voc)	50.21±3%	50.34±3%	50.47±3%	50.60±3%	50.74±3%	50.88±3%	51.02±3%
Short Circuit Current (Isc)	14.00±3%	14.07±3%	14.15±3%	14.23±3%	14.31±3%	14.39±3%	14.47±3%
Module Efficiency (%)	21.29	21.48	21.68	21.87	22.07	22.26	22.45

*STC: irradiance 1000 W/m², AM 1.5, and cell temperature of 25°C

ELECTRICAL DATA (NMOT)

Model Type	NHO144-550MN	NHO144-555MN	NHO144-560MN	NHO144-565MN	NHO144-570MN	NHO144-575MN	NHO144-580MN
Peak Power (max)	413.00	417.00	421.00	425.00	429.00	433.00	437.00
Maximum Power Voltage (Vmp)	38.99	39.12	39.25	39.38	39.51	39.64	39.77
Maximum Power Current (Imp)	10.61	10.67	10.73	10.79	10.85	10.91	10.97
Open Circuit Voltage (Voc)	47.70±3%	47.82±3%	47.94±3%	48.06±3%	48.20±3%	48.33±3%	48.46±3%
Short Circuit Current (Isc)	11.30±3%	11.36±3%	11.42±3%	11.49±3%	11.55±3%	11.62±3%	11.68±3%

*NMOT: irradiance 800 W/m², 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

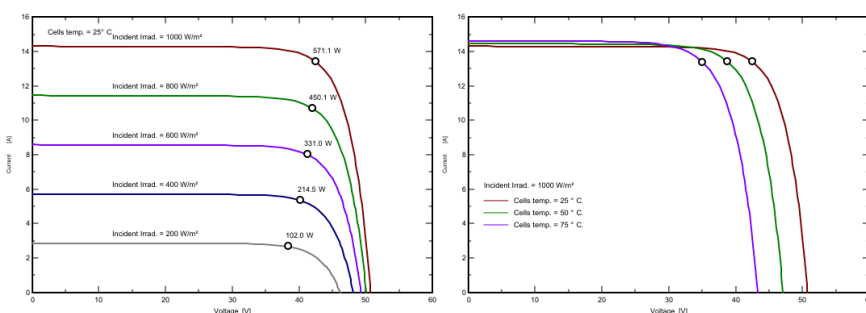
MECHANICAL CHARACTERISTICS

Cell Type	182 x 91 N Type Mono
No. of Cells	144 (12 x 12)
Dimensions	2278 x 1134 x 30 mm
Weight	28.40 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 ² , Positive(+)350mm, Negative(-)350mm (Including MC4 connector)
Connector	RHC2xyzu(Renhe), PV-ST101(Hengda)

PACKING WAY

20FT container	5 Packages/185 pcs
40HQ container	20 Packages/740 pcs

I-V CURVES (570 W)



PV DRAWINGS

