

NHO144MN

550-580W

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 optimised mass-production process and materials control.



Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance.



Enhanced Mechanical Load

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

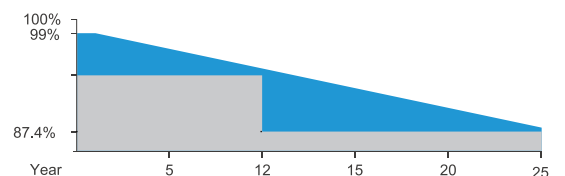
WARRANTY

12 years

Guarantee on product material and workmanship

25 years

Linear Power output warranty



CERTIFICATES

ISO 9001: 2015
Quality Management System

IEC 61215 / IEC 61730

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.

ELECTRICAL DATA(STC)

Peak Power(Pmax)	550.00	555.00	560.00	565.00	570.00	575.00	580.00
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:irradnace 1000W/m², AM1.5, and cell temperature of 25°C

ELECTRICAL DATA(NMOT)

Peak Power(Pmax)	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
Power Tolerance	0~+3 W
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

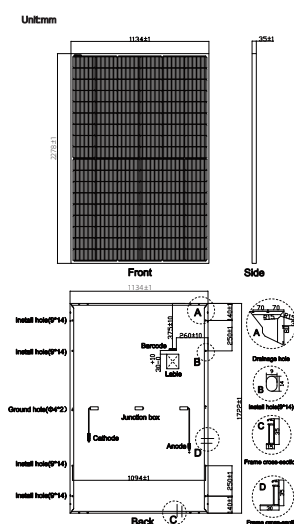
Cell Type	182*91 N Type Mono
No. of Cells	144 (12*12)
Dimensions	2278*1134*35mm
Weight	28.40kg
Front Glass	3.2mm high transmission, low iron, tempered glass
Frame	Anodized Aluminium Alloy
Junction box	IP67/IP68 3diodes
Output cables	4mm ² cable 35cm (Including MC4 connector)
MaxWind Load/Snow Load	2400Pa/5400Pa

PACKING WAY

20FT container	5 Packages/155pcs
40HQ container	20 Packages/620pcs

*All rights reserved. Subject to change without notice.

ASSEMBLY DRAWING (Unit:mm)



I-V CURVES

