

NHO144MP

525-550W

Perc Technology

Half-Cut Cells Single-Glass Module



Half-cut Technology

New circuit design, lower internal current and lower internal resistance loss



Significantly avoiding heat spot

The unique circuit design to reduce the temperature of heat spot significantly, so that to reduce the power loss and then increase the output of modules.



Lower cost

Increasing power generation can reduce the cost per kilowatt-hour



PID resistance

Industry standard anti-PID (potential induced decay) by TUV North Germany

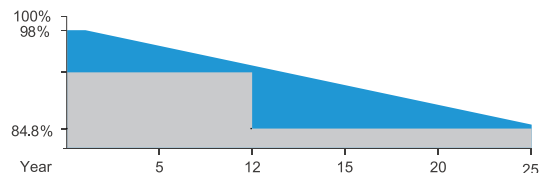
WARRANTY

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 Managemnet System



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

ELECTRICAL DATA (STC)

Peak Power(Pmax)	525.00	530.00	535.00	540.00	545.00	550.00
Maximum Power Voltage(Vmp)	41.28	41.44	41.60	41.76	41.93	42.10
Maximum Power Current(Imp)	12.72	12.79	12.84	12.93	13.00	13.16
Open Circuit Voltage(Voc)	49.10±3%	49.30±3%	49.50±3%	49.70±3%	49.90±3%	50.10±3%
Short Circuit Current(Isc)	13.56±3%	13.65±3%	13.74±3%	13.83±3%	13.92±3%	14.01±3%
Module Efficiency(%)	20.31	20.50	20.70	20.89	21.08	21.28

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

ELECTRICAL DATA (NMOT)

Peak Power(Pmax)	390.30	394.0	397.7	401.4	405.1	408.9
Maximum Power Voltage(Vmp)	38.30	38.46	38.62	38.78	38.93	39.09
Maximum Power Current(Imp)	10.20	10.25	10.30	10.35	10.41	10.46
Open Circuit Voltage(Voc)	46.00±3%	46.18±3%	46.36±3%	46.54±3%	46.73±3%	46.92±3%
Short Circuit Current(Isc)	10.81±3%	10.89±3%	10.97±3%	11.05±3%	11.13±3%	11.20±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)	-0.350 %/°C
Voc Temperature Coefficients (V/°C)	-0.285 %/°C
Isc Temperature Coefficients (A/°C)	+0.045 %/°C
NOCT Nominal Operating Cell Temperature (°C)	45±2 °C
Operating and Storage Temperature (°C)	-40~+85 °C

MECHANICAL CHARACTERISTICS

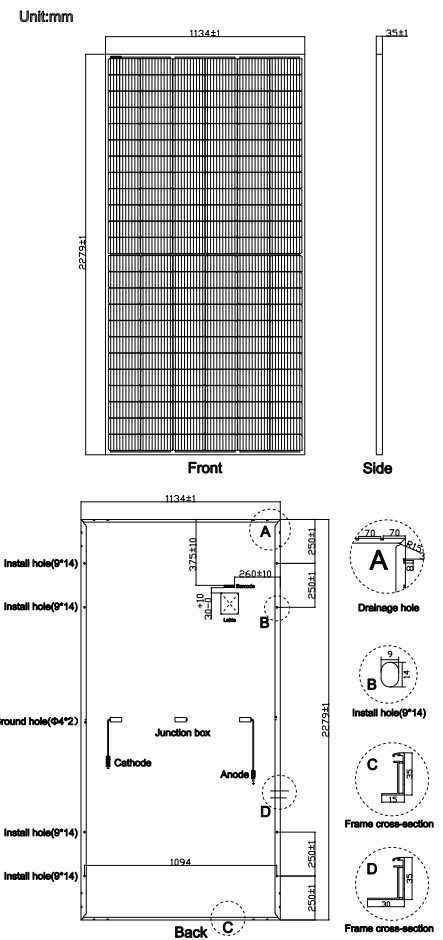
Cell Type	182*91 Mono
No. of Cells	144 (12*12)
Dimensions	2279*1134*35mm
Weight	28.40kg
Front Glass	3.2mm high transmission, low iron, tempered glass
Frame	Anodized Aluminium Alloy
Junction box	IP67/IP68 3diodes
Output cables	4mm ² cable 35cm (Including MC4 connector)
MaxWind Load/Snow Load	2400Pa/5400Pa

PACKING WAY

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

*All rights reserved. Subject to change without notice.

ASSEMBLY DRAWING (Unit:mm)



IV CURVE (540W)

