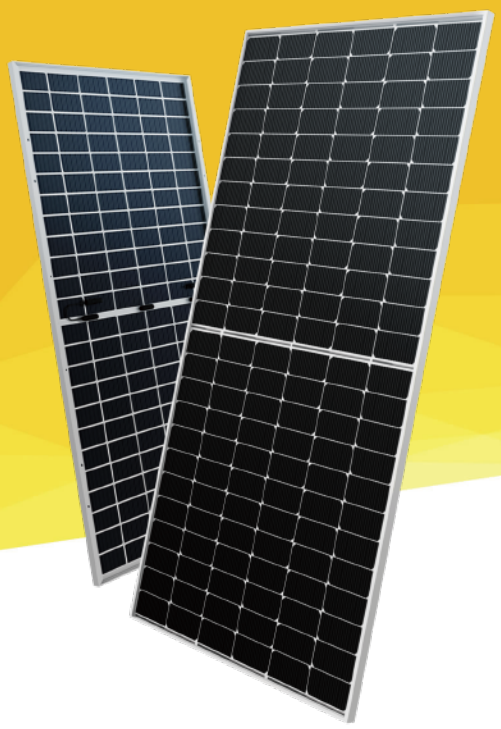
Qnsolar

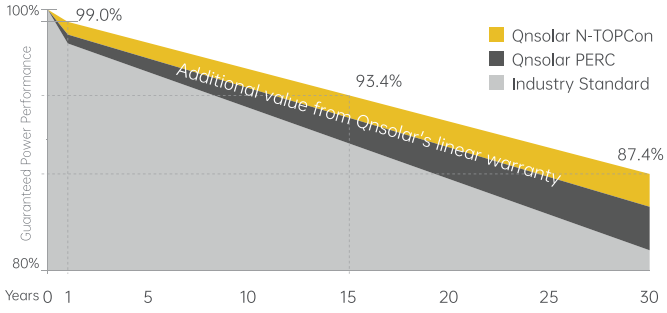
QNN182-HG-72

565-585W

N-Type TOPCon Bifacial Half-Cell Module



LINEAR PERFORMANCE WARRANTY



Linear power guarantee over 87.4% power output after 30 years

12 years
Product materials and process warranty

30 years
Linear power warranty

< 1%
First year power degradation

< 0.4%
Year 2-30 power degradation

COMPREHENSIVE CERTIFICATES

- IEC 61215, IEC 61730
- ISO 9001:2015 Quality Management System
- ISO 14001:2015 Environmental Management System
- ISO 45001:2018 Occupational Health and Safety Management System

* Different markets have different certification requirements. Also, the products are under rapid innovation. Please confirm the certification status with regional sales representatives.

22.6%
The superior MBB technology and leading process ensures high efficiency.

0/+5
0-5w positive power tolerance peak power output ensures the reliability of the module

0.4%
First year power degradation < 1%
Year 2-30 power degradation <0.4%
30 years power output guarantee >87.4%

Weak Light
The module shows excellent weak light performance in the morning, evening and cloudy days.

Anti-PID
Improved cell technology and selected materials make the module has good PID resistance

2400Pa
5400Pa
The module can withstand wind load of up to 2400Pa and snow load of 5400Pa

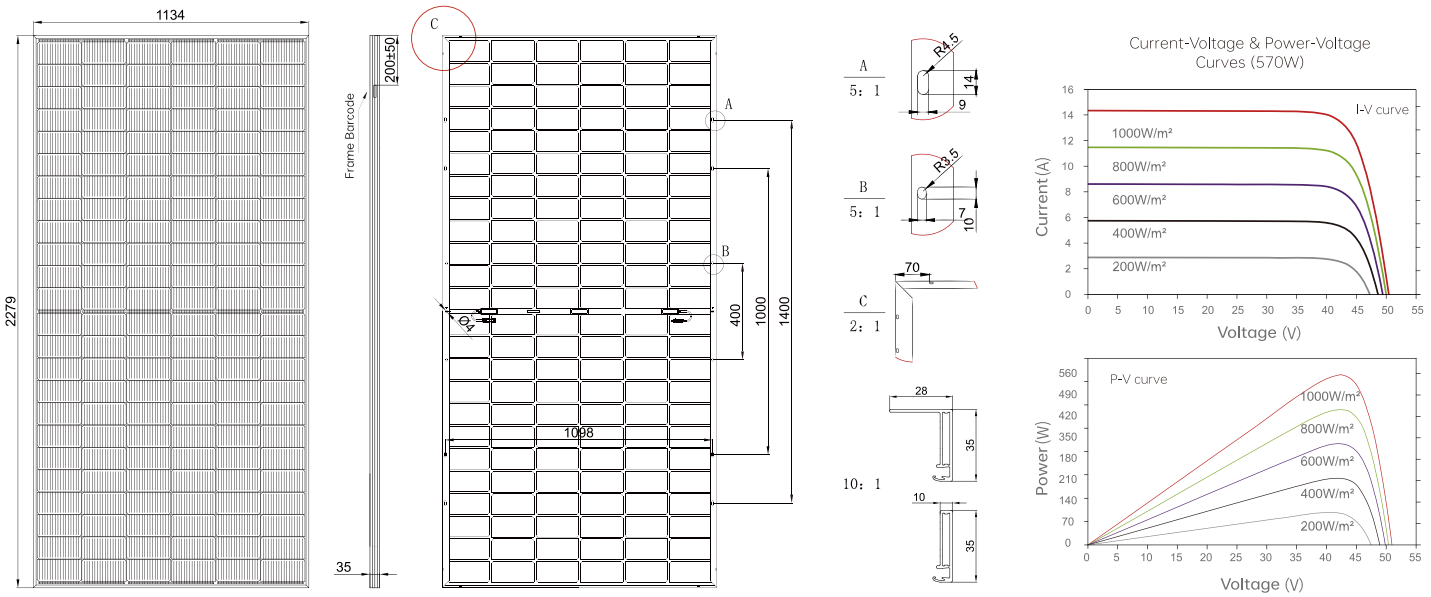
PERFORMANCE INSURANCE

Ariel Re

LLOYD'S Underwriters

Guardians of human health and the natural environment.

MODULE DIMENSIONS (mm)



ELECTRIC CHARACTERISTICS

Module Type	QNN182-HG565-72	QNN182-HG570-72	QNN182-HG575-72	QNN182-HG580-72	QNN182-HG585-72
STC Peak Power **Pmax(W)**	565	570	575	580	585
Optimum Working Voltage **Vm(V)**	41.58	42.04	42.22	42.40	42.58
Optimum Working Current **Im(A)**	13.50	13.56	13.62	13.68	13.74
Open Circuit Voltage **Voc(V)**	50.55	50.70	50.88	51.04	51.21
Short Circuit Current **Isc(A)**	14.25	14.33	14.41	14.49	14.57
Module Efficiency **(%)**	21.9	22.1	22.2	22.4	22.6

Power Tolerance (W)	0~+5	Maximum System Voltage	DC1500V
Maximum Series Fuse Rating	25A	Operating Module Temperature	-40℃ ~ +85℃

STC (Standard Testing Conditions): Irradiance 1000W/m², Cell Temperature 25 ℃ , Spectra at AM1.5

MECHANICAL PARAMETERS

Cell Type	N-Type TOPCon Monocrystalline 182×91mm	
Number of Half Cells	144 (2×72)	
Module Size	2279mm × 1134mm × 35mm (30mm)	
Weight	31.4kg (30mm Frame) / 31.6kg (35mm Frame)	
Glass	Dual,2.0mm Coated tempered glass	
Frame	Anodized aluminum alloy	
Junction Box	IP68 standard (3 bypass diode)	
Output Cable	TUV (2pfg1169:2007)	4mm²/1200mm
Connector	Compatible with MC4	
Front / Rear Side Maximum Static Loading		5400pa / 2400pa
Hailstone Test	25mm Hailstone at the speed of 23m/s	

TEMPERATURE CHARACTERISTICS

Nominal Operating Cell Temperature (NOCT)	45±2℃
Temperature Coefficient of **Pmax**	-0.30%/℃
Temperature Coefficient of **Voc**	-0.25%/℃
Temperature Coefficient of **Isc**	0.046%/℃
Rated Operating Cell Temperature	45℃±2℃

PACKING CONFIGURATION (40'HC)

Frame	30mm	35mm
Pieces per pallet	36	31
Pallets per container	20	20
Pieces per container	720	620

NOCT (Nominal Operating Cell Temperature): Irradiance 800W/m², Ambient Temperature 20℃ , Spectra at AM1.5, Wind at 1m/s

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