

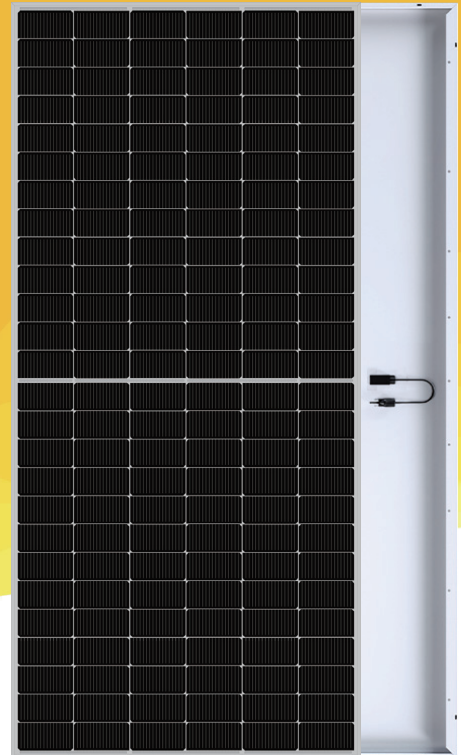


QNN182-HS-78

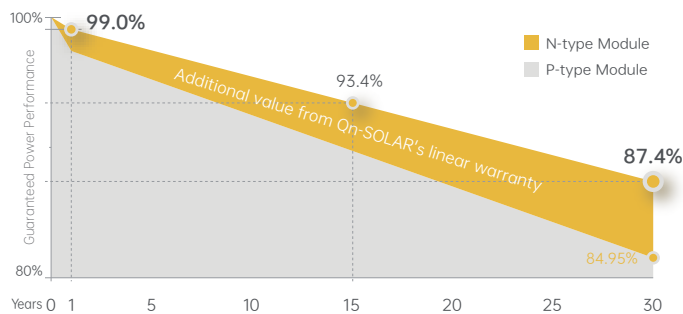
610-660W

TOPCon N-Type Monofacial Half-Cell Module

Max Efficiency 23.61%



LINEAR PERFORMANCE WARRANTY



Linear power guarantee over 87.4% power output after 30 years

20~30 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 • UNI9177 • ISO 9001:2015 • ISO 14001:2015 • ISO 45001:2018

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



Excellent lower temperature coefficient, 1%-2% more power generation than P-type modules in high temperature areas



Lower LCOE, 3.5% more power generation than PERC modules, greatly reduce the cost of power generation.



0~+5W positive power tolerance peak power output ensures the reliability of the module

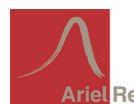


The module shows excellent weak light performance in the morning, evening and cloudy days.



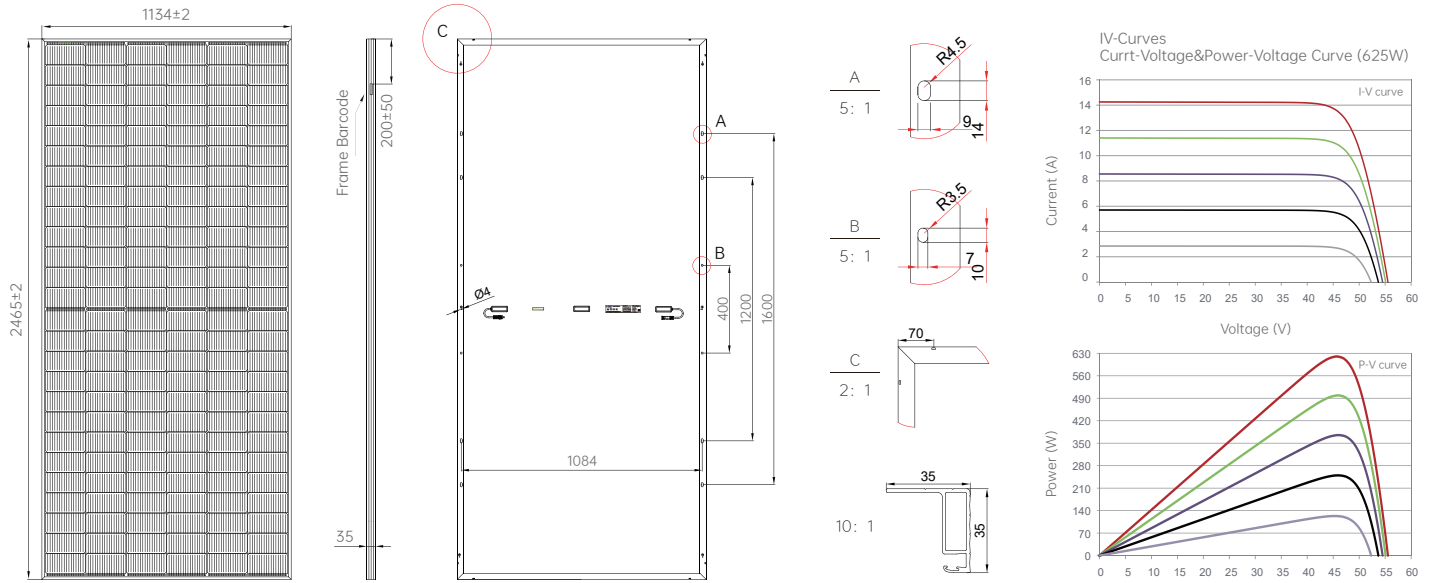
Improved cell technology and selected materials make the module has good PID resistance

PERFORMANCE INSURANCE



Guardians of human health and the natural environment.

Qn-SOLAR PV LIMITED



ELECTRIC CHARACTERISTICS

Module Type	QNN182-HS610-78	QNN182-HS615-78	QNN182-HS620-78	QNN182-HS625-78	QNN182-HS630-78	QNN182-HS635-78	QNN182-HS640-78	QNN182-HS645-78	QNN182-HS650-78	QNN182-HS655-78	QNN182-HS660-78
STC Peak Power - Pmax(Wp)	610	615	620	625	630	635	640	645	650	655	660
Optimum Working Voltage - Vmp(V)	46.53	46.73	46.93	47.13	47.33	47.53	47.73	47.92	48.12	48.32	48.52
Optimum Working Current - Imp(A)	13.11	13.16	13.21	13.26	13.31	13.36	13.41	13.46	13.51	13.56	13.61
Open Circuit Voltage - Voc(V)	55.51	55.71	55.91	56.11	56.31	56.51	56.71	56.90	57.11	57.32	57.53
Short Circuit Current - Isc(A)	13.63	13.68	13.73	13.78	13.83	13.88	13.93	13.98	14.03	14.08	14.13
Module Efficiency (%)	21.82	22.00	22.18	22.36	22.54	22.72	22.90	23.07	23.25	23.43	23.61

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

MECHANICAL PARAMETERS

Cell Type	TOPCon N-type Monocrystalline
Number of Half Cells	156 (2x78)
Module Size	2465mm × 1134mm × 35mm (30mm)
Weight	30.6 kg (35mm Frame) / 30.4 kg (30mm Frame)
Glass	3.2mm Coated tempered glass
Frame	Anodized aluminum alloy
Junction Box	IP68 standard (3 bypass diode)
Output Cable	TUV (2pfg1169:2007) 4mm²/1400mm
Connector	MC4 or (Compatible with MC4)
Hailstone Test	25mm Hailstone at the speed of 23m/s
Mechanical Load	Max. Snow load 5400 Pa, Max. Wind load 2400 Pa

NOCT : Irradiance 800W/m², Ambient Temperature 20°C , Spectra at AM1.5, Wind at 1m/s.

TEMPERATURE CHARACTERISTICS

Nominal Operating Cell Temperature (NOCT)	45±2°C
Temperature Coefficient of Pmax	-0.29 %/°C
Temperature Coefficient of Voc	-0.25 %/°C
Temperature Coefficient of Isc	0.046 %/°C
Power Tolerance (W)	0~+5 W
Maximum Series Fuse Rating	25 A
Maximum System Voltage	DC 1500V
Operating Module Temperature	-40°C ~ +85°C

PACKING CONFIGURATION (40'HC)

496 pcs / container , 16 pallets , 31 pcs / pallet (35mm Frame)

576 pcs / container , 16 pallets , 36 pcs / pallet (30mm Frame)



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