

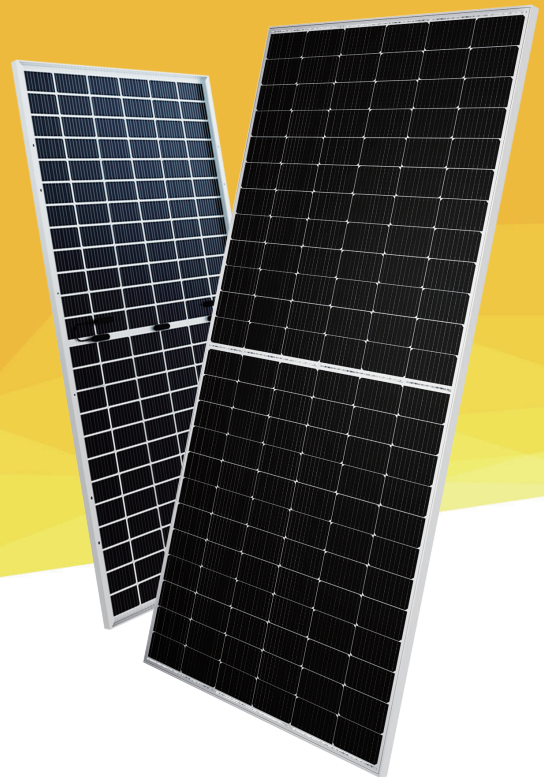


QNM182-HG-72

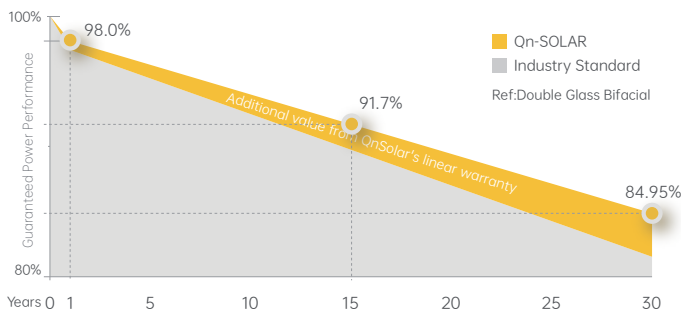
530-555W

Bifacial PERC Half-Cell Module

Max Efficiency 21.48%



LINEAR PERFORMANCE WARRANTY



Linear power guarantee over 84.95% power output after 30 years

12~30 years

Product materials and process warranty

30 years

Linear power warranty

< 2%

First year power degradation

< 0.45%

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.



Ultrahigh bifaciality, 25% maximum rear side power gain.



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



Effectively reduces the loss of up to 2% caused by mismatch and maximizes the output power of the system.



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

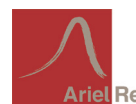


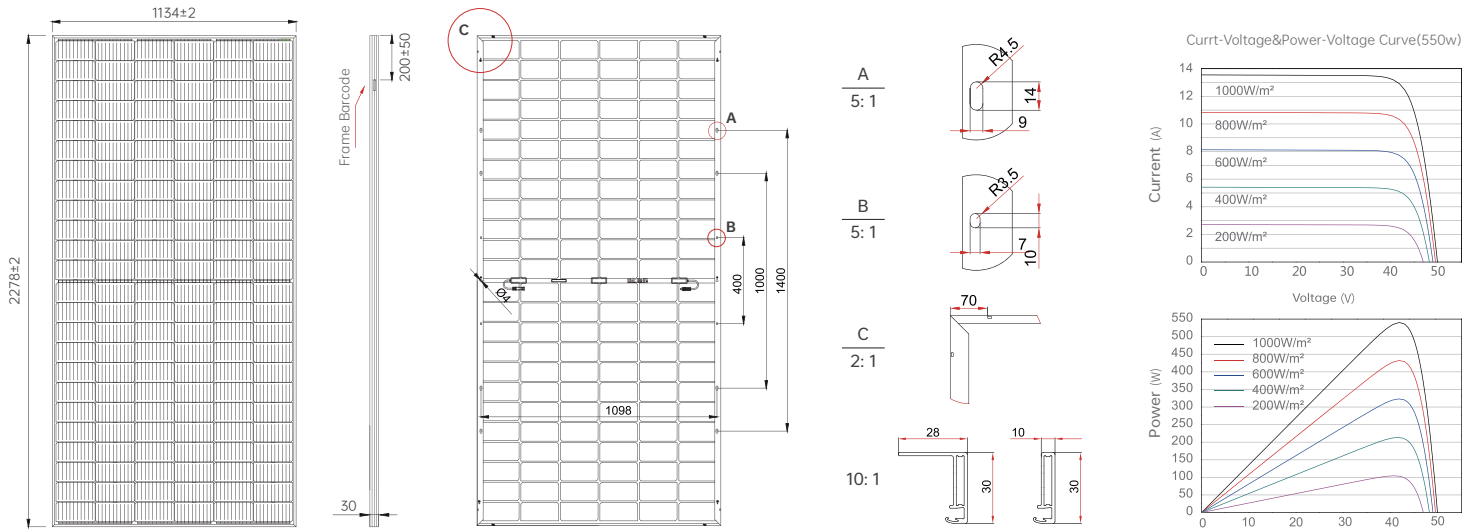
Improved cell technology and selected materials make the module has good PID resistance.



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

PERFORMANCE INSURANCE





ELECTRIC CHARACTERISTICS (STC)

| Module Type | QNM182-HG530-72 | QNM182-HG535-72 | QNM182-HG540-72 | QNM182-HG545-72 | QNM182-HG550-72 | QNM182-HG555-72 |
|---|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| STC Peak Power - Pmax(Wp) | 530 | 535 | 540 | 545 | 550 | 555 |
| Optimum Working Voltage - Vmp(V) | 41.00 | 41.19 | 41.38 | 41.58 | 41.77 | 41.96 |
| Optimum Working Current - Imp(A) | 12.93 | 12.99 | 13.05 | 13.11 | 13.17 | 13.23 |
| Open Circuit Voltage - Voc(V) | 49.52 | 49.65 | 49.78 | 49.91 | 50.04 | 50.17 |
| Short Circuit Current - Isc(A) | 13.45 | 13.50 | 13.55 | 13.61 | 13.65 | 13.69 |
| Module Efficiency (%) | 20.52 | 20.71 | 20.90 | 21.10 | 21.29 | 21.48 |

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

ELECTRICAL CHARACTERISTICS WITH 10% REAR SIDE POWER GAIN

| Module Type | QNM182-HG530-72 | QNM182-HG535-72 | QNM182-HG540-72 | QNM182-HG545-72 | QNM182-HG550-72 | QNM182-HG555-72 |
|---|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Total Equivalent power - Pmax (Wp) | 583 | 589 | 594 | 600 | 605 | 611 |
| Maximum Power Voltage - Vmp(V) | 41.00 | 41.19 | 41.38 | 41.58 | 41.77 | 41.96 |
| Maximum Power Current - Imp(A) | 14.22 | 14.29 | 14.36 | 14.42 | 14.49 | 14.55 |
| Open Circuit Voltage - Voc(V) | 49.52 | 49.65 | 49.78 | 49.91 | 50.04 | 50.17 |
| Short Circuit Current - Isc(A) | 14.80 | 14.85 | 14.91 | 14.97 | 15.02 | 15.09 |

Rear side power gain: The additional gain from the rear side compared to the power of the front side at the standard test condition. It depends on mounting (structure, height, tilt angle etc.) and albedo of the ground.

MECHANICAL PARAMETERS

| | |
|----------------------|--|
| Cell Type | P-type PERC Monocrystalline |
| Number of Half Cells | 144(6×24) |
| Module Size | 2278mm × 1134mm × 30mm (35mm) |
| Weight | 30.8 kg (30mm Frame) / 31 kg (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 | 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 | -0.31%/°C |
| Temperature Coefficient of Voc | -0.28%/°C |
| Temperature Coefficient of Isc | 0.054%/°C |
| Power Tolerance (W) | 0~+5W |
| Maximum Series Fuse Rating | 25A |
| Maximum System Voltage | DC1500V |
| Operating Module Temperature | -40°C ~ +85°C |

PACKING CONFIGURATION (40'HC)

| |
|---|
| 720 pcs / container , 20 pallets , 36 pcs / pallet (30mm Frame) |
| 620 pcs / container , 20 pallets , 31 pcs / pallet (35mm Frame) |



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