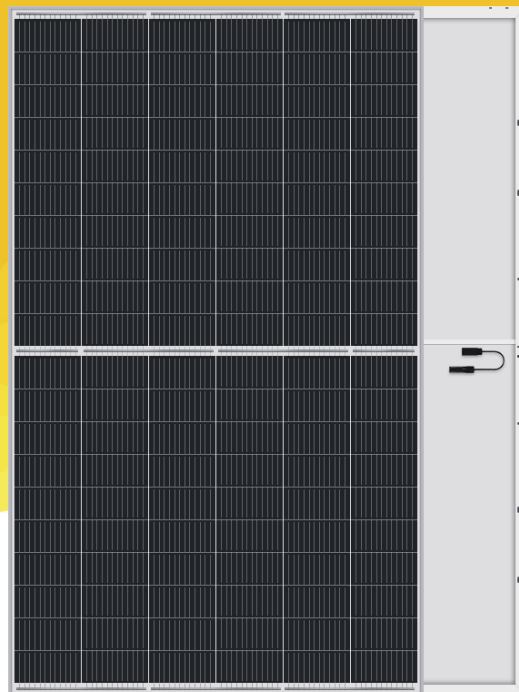




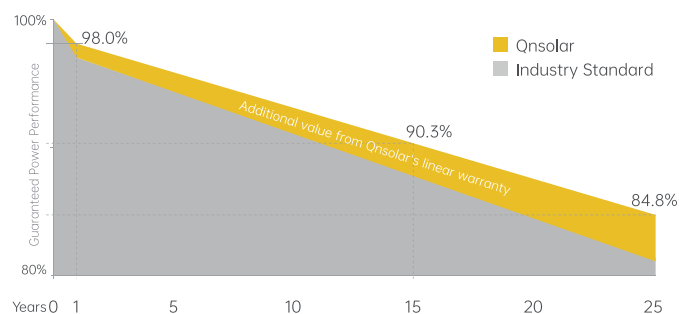
QNM210-HS-60

590-610W

Monofacial PERC Half-Cell Module



LINEAR PERFORMANCE WARRANTY



Linear power guarantee over 84.8% power output after 25 years

12 years

Product materials and process warranty

25 years

Linear power warranty

< 2%

First year power degradation

< 0.55%

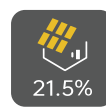
Year 2-30 power degradation

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.



The superior MBB technology and leading process ensures high efficiency.



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.

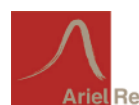


Improved cell technology and selected materials make the module has good PID resistance

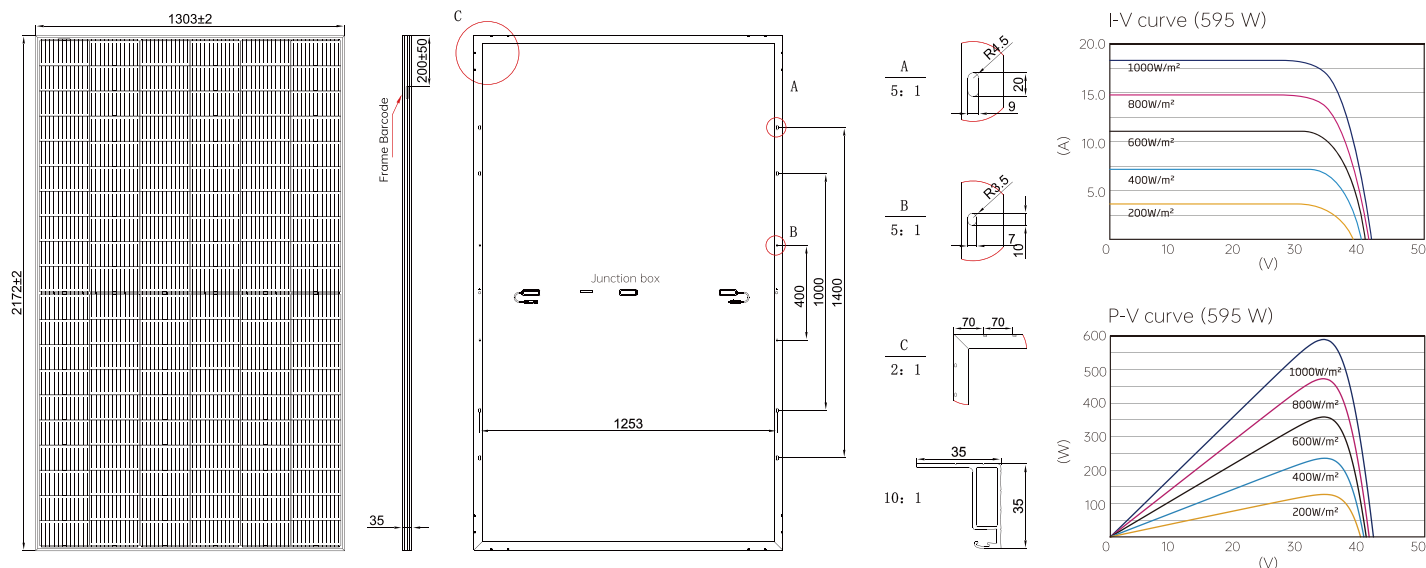


The module can withstand wind load of up to 2400Pa and snow load of 5400Pa

PERFORMANCE INSURANCE



MODULE DIMENSIONS (mm)



ELECTRIC CHARACTERISTICS

Module Type	QNM210-HS590-60	QNM210-HS595-60	QNM210-HS600-60	QNM210-HS605-60	QNM210-HS610-60
STC Peak Power P_{max}(W)	590	595	600	605	610
Optimum Working Voltage V_m(V)	34.27	34.42	34.57	34.71	34.86
Optimum Working Current I_m(A)	17.22	17.29	17.36	17.43	17.50
Open Circuit Voltage V_{oc}(V)	41.15	41.32	41.49	41.66	41.83
Short Circuit Current I_{sc}(A)	17.96	18.01	18.06	18.11	18.16
Module Efficiency (%)	20.8	21.0	21.2	21.4	21.5
Power Tolerance (W)	0~+5	Maximum System Voltage		DC1500V	
Maximum Series Fuse Rating	30A	Operating Module Temperature		-40°C ~ +85°C	

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

MECHANICAL PARAMETERS

Cell Type	P-type PERC Monocrystalline 210×105mm	
Number of Half Cells	120 (6×20)	
Module Size	2172mm × 1303mm × 35mm (30mm)	
Weight	30.7kg (30mm Frame) / 30.9kg (35mm Frame)	
Front Glass	3.2mm Coated tempered glass	
Frame	Anodized aluminum alloy	
Junction Box	IP68 standard (3 bypass diode)	
Output Cable	TUV (2pfg1169:2007)	4mm ² /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°C
Temperature Coefficient of P_{max}	-0.32%/°C
Temperature Coefficient of V_{oc}	-0.26%/°C
Temperature Coefficient of I_{sc}	0.052%/°C
Rated Operating Cell Temperature	45°C±2°C

PACKING CONFIGURATION (40'HC)

Frame	30mm	35mm
Pieces per pallet	36	31
Pallets per container	18	18
Pieces per container	648	558

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



Web: www.qn-solarpv.com E-mail: info@qn-solarpv.com

* The technical parameters contained in this datasheet may deviate slightly, and Qn-SOLAR PV LIMITED does not guarantee that they are completely accurate. Due to continuous innovation, research and development and product improvement, Qnsolar reserves the right to adjust the information in this datasheet at any time without prior notice. The customer should obtain the latest version of datasheet when signing the contract and make it an integral part of the binding contract signed by both parties. The Chinese (or other language) translation files of this datasheet are for reference only. If there is any inconsistency between the English version and the Chinese version (or other language versions), the English version shall prevail.