

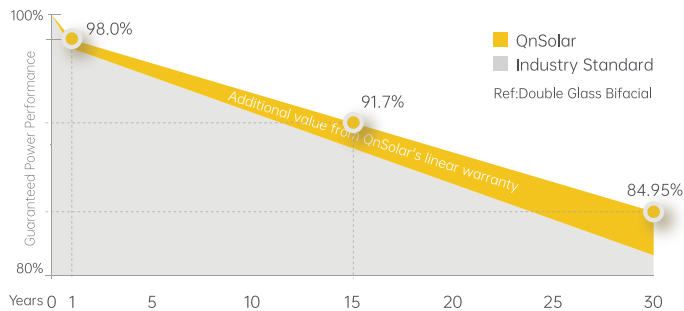
QNM182-HG-72

**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** 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.

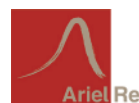


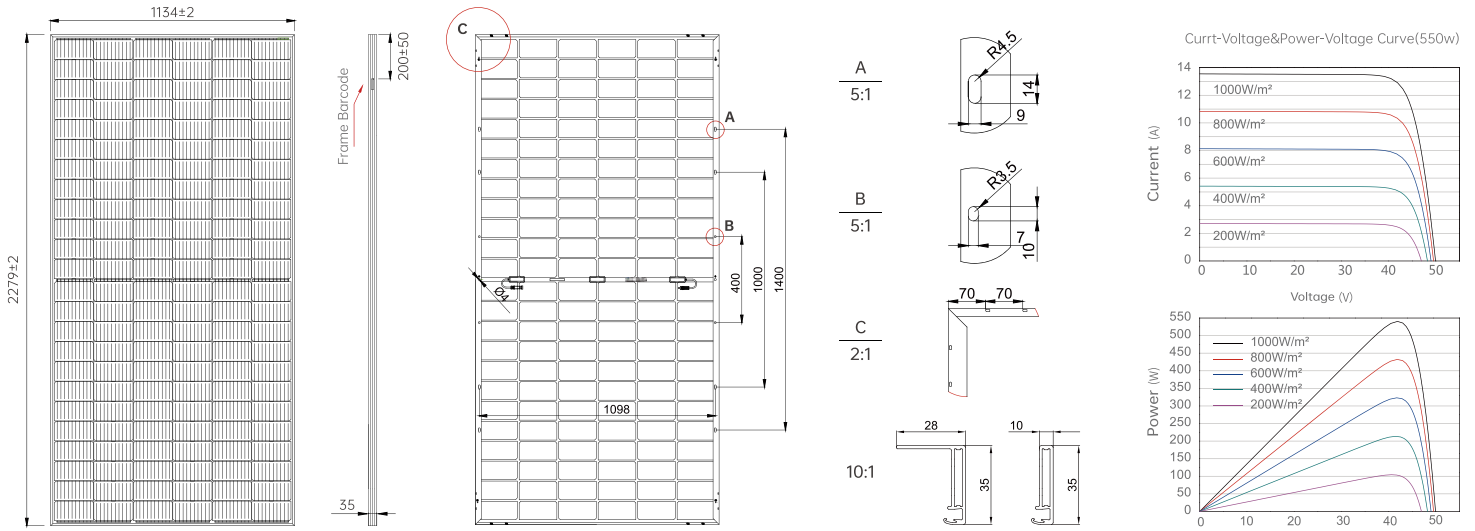
Improved cell technology and selected materials make the module has good PID resistance.



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 (%)	20.51	20.70	20.89	21.09	21.28	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

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	15.06

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	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	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)



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

\* The technical parameters contained in this datasheet may deviate slightly, and QnSolar 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.



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Product Service

# Attestation of Conformity

No. N8A 120422 0004 Rev. 00

**Holder of Attestation: Qn-SOLAR PV LIMITED**Unit 2 of LG 1, Mirror Tower, 61 Mody Road  
999077 Tsim Sha Tsui, Kowloon  
HONG KONG**Product:****Crystalline Silicon Terrestrial Photovoltaic  
(PV) Modules****Mono-crystalline Silicon Photovoltaic (PV)  
Modules**

This Attestation of Conformity is issued on a voluntary basis according to the Low Voltage Directive 2014/35/EU relating to electrical equipment designed for use within certain voltage limits. It confirms that the listed equipment complies with the principal protection requirements of the directive and is based on the technical specifications applicable at the time of issuance. It refers only to the particular sample submitted for conformity assessment. For details see: [www.tuvsud.com/ps-cert](http://www.tuvsud.com/ps-cert)

**Test report no.:**

882162303102

**Date,** 2023-06-27

(Xinlian LUO)

Page 1 of 2

This Attestation does not replace the regulatory EU Declaration of Conformity (DoC) and does not allow for CE marking. After preparation of the necessary documentation and establishing compliance to requirements of all applicable directives, the manufacturer may sign a DoC and apply the CE marking. The DoC is issued under the sole responsibility of the manufacturer.



TUV®



Product Service

# Attestation of Conformity

No. N8A 120422 0004 Rev. 00

**Model(s):**

- With 1/2 cut of 210 mono c-Si cell (132pcs): QNM210-HSxxx-66 (XXX=650-670, in step of 5)
  - With 1/2 cut of 210 mono c-Si cell (120pcs): QNM210-HSxxx-60 (XXX=590-610, in step of 5)
  - With 1/2 cut of 210 mono c-Si cell (110pcs): QNM210-HSxxx-55 (XXX=540-560, in step of 5)
  - With 1/3 cut of 210 mono c-Si cell (150pcs): QNM210-HSxxx-50 (XXX=490-510, in step of 5)
  - With 1/2 cut of 182 mono c-Si cell (144pcs): QNM182-HSxxx-72 (xxx=525-555, in step of 5)
  - With 1/2 cut of 182 mono c-Si cell (132pcs): QNM182-HSxxx-66 (xxx=480-500, in step of 5)
  - With 1/2 cut of 182 mono c-Si cell (120pcs): QNM182-HSxxx-60(xxx=440-460, in step of 5)
  - With 1/2 cut of 182 mono c-Si cell (108pcs): QNM182-HSxxx-54 (xxx=395-415, in step of 5)
  - With 1/2 cut of 210 mono c-Si cell (132pcs): QNN210-HSxxx-66 (xxx=670-695, in step of 5)
  - With 1/2 cut of 210 mono c-Si cell (120pcs): QNN210-HSxxx-60 (xxx=610-630, in step of 5)
  - With 1/2 cut of 210 mono c-Si cell (110pcs): QNN210-HSxxx-55 (xxx=555-575, in step of 5)
  - With 1/2 cut of 182 mono c-Si cell (144pcs): QNN182-HSxxx-72 (xxx=555-575, in step of 5)
  - With 1/2 cut of 182 mono c-Si cell (120pcs): QNN182-HSxxx-60(xxx=465-475, in step of 5)
  - With 1/2 cut of 182 mono c-Si cell (108pcs): QNN182-HSxxx-54 (xxx=415-430, in step of 5)
- xxx is standing for rated output power at STC

**Parameters:**

Safety Class: Class II  
 Max. System Voltage: 1500V DC  
 Fire Safety Class: Class C according to UL790.  
 Test Laboratory: Metrology and Testing Center of China Electronics Technology Group Corporation No.18th Research Institute  
 (NO.6 Huake seven RD, Haitai street, Xiqing District, Tianjin,300384, China)  
 Construction: Framed, with Junction box, cable and connector

**Tested**

**according to:**

- EN IEC 61730-1:2018
- EN IEC 61730-2:2018
- EN IEC 61730-1:2018/AC:2018-06
- EN IEC 61730-2:2018/AC:2018-06

Page 2 of 2

This Attestation does not replace the regulatory EU Declaration of Conformity (DoC) and does not allow for CE marking. After preparation of the necessary documentation and establishing compliance to requirements of all applicable directives, the manufacturer may sign a DoC and apply the CE marking. The DoC is issued under the sole responsibility of the manufacturer.



# Zertifikat

# Certificate

Zertifikat Nr. *Certificate No.* Blatt *Sheet*  
 PV 50571126 0001

Ihr Zeichen *Client Reference* Unser Zeichen *Our Reference* Ausstellungsdatum *Date of Issue*  
 C.X.X. 01-Ruanand-CN21T1QV 008 09.01.2023 (day/mo/yr)

Genehmigungsinhaber *License Holder* Fertigungsstätte *Manufacturing Plant*  
 Q-SOLAR LIMITED 040-0002393546  
 UNIT 2 LG 1 MIRROR TOWER 61 MODY RD  
 TST KLN HONG KONG  
 P.R. China

## Prüfzeichen *Test Mark*



## Geprüft nach *Tested acc. to*

IEC 61215-1:2016  
 IEC 61215-1-1:2016  
 IEC 61215-2:2016  
 IEC 61730-1:2016  
 IEC 61730-2:2016  
 EN 61215-1:2016  
 EN 61215-1-1:2016  
 EN 61215-2:2017  
 EN IEC 61730-1:2018  
 EN IEC 61730-2:2018

Zertifiziertes Produkt (Geräteidentifikation)  
*Certified Product (Product Identification)*

Lizenzentgelte - Einheit  
*License Fee - Unit*

## PV Module

Type Designations:  
 Max. system voltage (Up to 1500VDC)  
 With 1/2 cut of mono c-Si cell:  
 QNM182-HSxxx-54 (xxx=395-415, in step of 5, 108pcs)  
 QNM182-HSxxx-60 (xxx=440-460, in step of 5, 120pcs)  
 QNM182-HSxxx-66 (xxx=480-500, in step of 5, 132pcs)  
 QNM182-HSxxx-72 (xxx=530-555, in step of 5, 144pcs)  
 QNM210-HSxxx-55 (xxx=540-560, in step of 5, 110pcs)  
 QNM210-HSxxx-60 (xxx=590-610, in step of 5, 120pcs)  
 QNM210-HSxxx-66 (xxx=650-670, in step of 5, 132pcs)  
 With 1/3 cut of mono c-Si cell:  
 QNM210-HSxxx-50 (xxx=490-510, in step of 5, 150pcs)

Continued on Page 2

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde.  
 Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht.  
 This certificate is based on our Testing and Certification Regulation. The product  
 fulfills above mentioned requirements, the production is subject to surveillance.

Zertifizierungsstelle



Dipl.-Ing. (FH) Tim Kirschner

**TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg**  
 http://www.tuv.com/safety E-mail: markcheck@tuv.com  
 Fax: +49 221 806-3935

**Zertifikat**

**Certificate**

**Zertifikat Nr. Certificate No.**  
PV 50571126

**Blatt Sheet**  
0002

**Ihr Zeichen Client Reference**  
C.X.X.

**Unser Zeichen Our Reference**  
01-Ruanand-CN21T1QV 008

**Ausstellungsdatum**  
09.01.2023

**Date of Issue**  
(day/mo/yr)

**Genehmigungsinhaber License Holder**  
Q-SOLAR LIMITED  
UNIT 2 LG 1 MIRROR TOWER 61 MODY RD  
TST KLN HONG KONG  
P.R. China

**Fertigungsstätte Manufacturing Plant**  
040-0002393546

**Prüfzeichen Test Mark**



**Geprüft nach Tested acc. to**

IEC 61215-1:2016  
IEC 61215-1-1:2016  
IEC 61215-2:2016  
IEC 61730-1:2016  
IEC 61730-2:2016  
EN 61215-1:2016  
EN 61215-1-1:2016  
EN 61215-2:2017  
EN IEC 61730-1:2018  
EN IEC 61730-2:2018

**Zertifiziertes Produkt (Geräteidentifikation)**  
**Certified Product (Product Identification)**

**Lizenzentgelte - Einheit**  
**License Fee - Unit**

PV Module

Continuation of Page 0001

Remarks:

Class II acc. to IEC 61140

Fire Rating: Class C (according to UL 790)

Design Load / Safety Factors: 3600 Pa / 1.5 (downward)  
1600 Pa / 1.5 (upward)

**Conditions:**

The product test is voluntarily according to technical regulations. Any change of the design, materials, components or processing may require the repetition of some of the qualification tests in order to retain type approval. The certificate is valid until 10 November 2027.

*Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde.  
Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht.  
This certificate is based on our Testing and Certification Regulation. The product fulfills above mentioned requirements, the production is subject to surveillance.*

**TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg**  
<http://www.tuv.com/safety> E-mail: [markcheck@tuv.com](mailto:markcheck@tuv.com)  
Fax: +49 221 806-3935



Jiangsu Zhongqing Photovoltaic  
Technology Co., Ltd.  
Wang Jiajia

Date : 09.01.2023  
Our ref. : Ruanand 01  
Your ref.: C.X.X.

26, North Side of Taishan Road,  
Xiyi High-tech Zone, Xinyi, Xuzhou  
221400 Jiangsu  
P.R. China

**Ref : PV Photovoltaic Modules**

Type of Equipment : PV Module  
Model Designation : See Certificate  
Certificate No. : PV 50571126 0001  
Report No. : CN21T1QV 008

Dear Wang Jiajia,

Please find enclosed certification documents as specified above.

Please forward these documents to the certificate holder.

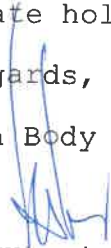
If you contact our office, please quote our reference above.

We thank you for your cooperation.

the certificate holder is: Q-SOLAR LIMITED

With kind regards,

Certification Body

  
Dipl.-Ing. (FH) Tim Kirschner

Enclosure

证书的详细资料请登陆[www.certipedia.com](http://www.certipedia.com)查阅,或拨打我司客服热线800 999 3668 / 400 883 1300咨询

Q-SOLAR LIMITED  
Chen Xiaoxiu

Date : 09.01.2023  
Our ref. : Ruanand 01  
Your ref.: C.X.X.

UNIT 2 LG 1 MIRROR TOWER 61 MODY RD  
TST KLN HONG KONG  
P.R. China

**Ref : PV Photovoltaic Modules**

Type of Equipment : PV Module  
Model Designation : See Certificate  
Certificate No. : PV 50571126 0001  
Report No. : CN21T1QV 008

Dear Chen Xiaoxiu,

Thank you very much for your interest in our services.

Please find enclosed your certification documents.

We appreciate your support and would like to offer our assistance in the approval of your future products through our extensive range of technical services.

Please feel free to contact us whatever your requirements may be.

With kind regards,

Certification Body

  
Dipl.-Ing. (FH) Tim Kirschner

cc: Q-SOLAR LIMITED

Enclosure

证书的详细资料请登陆[www.certipedia.com](http://www.certipedia.com)查阅,或拨打我司客服热线800 999 3668 / 400 883 1300咨询