

# Certificate



This certifies that the company:

**Shenzhen Qiming Photovoltaic Technology Co., Ltd.**  
201, Building 10, No. 2-1, Xiguangyue Third Road, Loucun  
Community, Xinhua Street, Guangming District, Shenzhen

is authorized to provide the product(s) mentioned below with the mark as illustrated.

Manufacturer and factory(-ies): See Annex 1

Description of product(s) **Crystalline Silicon Terrestrial Photovoltaic (PV) Modules**  
(details see Annex 2):

Certification program: P12-VA-01 Rev. 17 / 09.20

Certification fundamental(s): IEC 61215-1:2021 / EN IEC 61215-1:2021,  
IEC 61215-1-1:2021 / EN IEC 61215-1-1:2021, IEC 61215-2:2021 / EN IEC 61215-2:2021,  
IEC 61730-1:2023, IEC 61730-2:2023

It is certified by TÜV NORD CERT GmbH that the product(s) described above has(have) been assessed according to the certification program mentioned above and found in compliance with the requirements of above specified certification fundamental(s). This certification is based on evaluation results as documented in test report(s) referenced below and production site(s) audit results as documented in factory inspection report(s) referenced in Annex 1. This certificate is valid in conjunction with these quoted report(s).

Registration no.: 44 780 24 406749 - 487R7A1M11  
Report no.: 492013492.012  
File no.: PVP08029/25P

Valid from: 2025-12-16  
Valid until: 2029-12-19

Essen, 2025-12-16

Certification Body - Consumer Products

**TÜV NORD CERT GmbH**  
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Please also pay attention to the information stated overleaf.



Visit our database to verify the validity of this certificate.

# Annex 1

to certificate registration no. 44 780 24 406749 - 487R7A1M11

**Manufacturer:** **Shenzhen Qiming Photovoltaic Technology Co., Ltd.**  
201, Building 10, No. 2-1, Xiguangyue Third Road, Loucun Community, Xihu Street,  
Guangming District, Shenzhen

**Factory:** **Shenzhen Qiming Photovoltaic Technology Co., Ltd.**  
201, Building 10, No. 2-1, Xiguangyue Third Road, Loucun Community, Xihu Street,  
Guangming District, Shenzhen

Factory inspection report no.: 862010909.002

Remark: Factory inspection is mandatory to be performed annually. Please refer to factory inspection report for detailed information.

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# Annex 2

to certificate registration no. 44 780 24 406749 - 487R7A1M11

## Description of product(s):

Module types:	<b>Double Glass PV Modules with Half-cut 182mm PERC Mono-crystalline Silicon Solar Cells:</b> 144 cells: QM182PHCD-xxx-72 (xxx = 545 - 565, in steps of 5) 120 cells: QM182PHCD-xxx-60 (xxx = 455 - 470, in steps of 5) 108 cells: QM182PHCD-xxx-54 (xxx = 410 - 420, in steps of 5) Remark: xxx indicates rated output power generated from front side only at STC.
Maximum system voltage:	1500V
Maximum overcurrent protection rating:	25A
Electrical protection class:	Class II
Pollution degree:	1
98 <sup>th</sup> percentile module operating temperature (T <sub>98</sub> ):	70°C
Design load (positive / negative):	3600Pa / 2400Pa
Safety factors:	1.5
Fire safety class:	Class C according to UL790
Isb bifaciality coefficient (ϕ <sub>Isb</sub> ):	70% ± 5%

Module types:	<b>Double Glass PV Modules with Half-cut 182 mm series TOPCon Mono-crystalline Silicon Solar Cells:</b> 156 cells: QM182THCD-xxx-78 (xxx = 610 - 650, in steps of 5) 156 cells: QM182THCDQ-xxx-78 (xxx = 615 - 650, in steps of 5) 156 cells: QM182THCDZ-xxx-78 (xxx = 615 - 650, in steps of 5) 144 cells: QM182THCD-xxx-72 (xxx = 565 - 595, in steps of 5) 144 cells: QM182THCDQ-xxx-72 (xxx = 570 - 595, in steps of 5) 144 cells: QM182THCDZ-xxx-72 (xxx = 570 - 595, in steps of 5) 120 cells: QM182THCD-xxx-60 (xxx = 470 - 500, in steps of 5) 120 cells: QM182THCDQ-xxx-60 (xxx = 475 - 500, in steps of 5) 120 cells: QM182THCDZ-xxx-60 (xxx = 475 - 500, in steps of 5) 108 cells: QM182THCD-xxx-54 (xxx = 425 - 450, in steps of 5) 108 cells: QM182THCDQ-xxx-54 (xxx = 425 - 450, in steps of 5) 108 cells: QM182THCDZ-xxx-54 (xxx = 425 - 450, in steps of 5) 28 cells: QM182THCDW-xxx-14 (xxx=105-110, in steps of 5)
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16 cells: QM182THCDW-xxx-8 (xxx=60)  
 8 cells: QM182THCDW-xxx-4 (xxx=30)  
 Remark: xxx indicates rated output power generated from front side only at STC.

Maximum system voltage: 1500V  
 Maximum overcurrent protection rating: 25A, refer to CDF for details  
 Electrical protection class: Class II  
 Pollution degree: 1  
 98<sup>th</sup> percentile module operating temperature (T<sub>98</sub>): 70°C  
 Design load (positive / negative): 3600Pa / 2400Pa or 3600Pa / 1600Pa, refer to CDF for details  
 Safety factors: 1.5  
 Fire safety class: Class C according to UL790  
 Isc bifaciality coefficient (ϕ<sub>Isc</sub>): 80% ± 5%

Module types: **Colourful Double Glass PV Modules with Half-cut 182 mm series TOPCon Mono-crystalline Silicon Solar Cells:**  
 156 cells: QM182THCDC-xxx-78 (xxx=350-375, 410-445, 465-500, 540-560, in steps of 5)  
 144 cells: QM182THCDC-xxx-72 (xxx=325-345, 380-410, 435-460, 500-515, in steps of 5)  
 120 cells: QM182THCDC-xxx-60 (xxx=270-285, 315-340, 360-385, 415-430, in steps of 5)  
 108 cells: QM182THCDC-xxx-54 (xxx=245-260, 285-305, 320-345, 375-385, in steps of 5)  
 Remark: xxx indicates rated output power generated from front side only at STC.

Maximum system voltage: 1500V  
 Maximum overcurrent protection rating: 25A  
 Electrical protection class: Class II  
 Pollution degree: 1  
 98<sup>th</sup> percentile module operating temperature (T<sub>98</sub>): 70°C  
 Design load (positive / negative): 3600Pa / 1600Pa  
 Safety factors: 1.5  
 Fire safety class: Class C according to UL790  
 Isc bifaciality coefficient (ϕ<sub>Isc</sub>): 80% ± 5%

Module types: **Double Glass PV Modules with Half-cut 210mm TOPCon Mono-crystalline Silicon Solar Cells:**  
 132 cells: QM210THCD-xxx-66 (xxx=695-725, in steps of 5)  
 120 cells: QM210THCD-xxx-60 (xxx=630-655, in steps of 5)  
 Remark: xxx indicates rated output power generated from front side only at STC.

Maximum system voltage: 1500V  
 Maximum overcurrent protection rating: 30A

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Electrical protection class:	Class II
Pollution degree:	1
98 <sup>th</sup> percentile module operating temperature (T <sub>98</sub> ):	70°C
Design load (positive / negative):	3600Pa / 1600Pa
Safety factors:	1.5
Fire safety class:	Class C according to UL790
Isc bifaciality coefficient (φIsc):	80% ± 5%

Module types:

**Double Glass PV Modules with Half-cut 210mmx182mm TOPCon Mono-crystalline Silicon Solar Cells:**

132 cells: QM210THCD-xxx-66 (xxx=605-630, in steps of 5)

120 cells: QM210THCD-xxx-60 (xxx=550-570, in steps of 5)

108 cells: QM210THCD-xxx-54 (xxx=495-510, in steps of 5)

96 cells: QM210THCD-xxx-48 (xxx=440-455, in steps of 5)

Remark: xxx indicates rated output power generated from front side only at STC.

Maximum system voltage:	1500V
Maximum overcurrent protection rating:	25A
Electrical protection class:	Class II
Pollution degree:	1
98 <sup>th</sup> percentile module operating temperature (T <sub>98</sub> ):	70°C
Design load (positive / negative):	3600Pa / 1600Pa
Safety factors:	1.5
Fire safety class:	Class C according to UL790
Isc bifaciality coefficient (φIsc):	80% ± 5%

Remark:

For detailed product information, please refer to CDF (Constructional Data Form) with the same file no.

Isc bifaciality coefficient (φIsc) =  $I_{SC_{rear}} / I_{SC_{front}}$ , as defined in IEC TS 60904-1-2.

The tolerance of Isc bifaciality coefficient (φIsc) is claimed by client.

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Module types:	<b>Double Glass PV Modules with Half-cut 210mmx182.2mm TOPCon Mono-crystalline Silicon Solar Cells:</b> 156 cells: QM210RTTHCD-xxx-78 (xxx=725-740, in steps of 5) Remark: xxx indicates rated output power generated from front side only at STC.
Maximum system voltage:	1500V
Maximum overcurrent protection rating:	30
Electrical protection class:	Class II
Pollution degree:	1
98 <sup>th</sup> percentile module operating temperature (T <sub>98</sub> ):	70°C
Design load (positive / negative):	3600Pa / 1600Pa
Safety factors:	1.5
Fire safety class:	Class C according to UL790
Isc bifaciality coefficient ( $\phi_{Isc}$ ):	80% $\pm$ 5%

Remark:

For detailed product information, please refer to CDF (Constructional Data Form) with the same file no.

Isc bifaciality coefficient ( $\phi_{Isc}$ ) =  $I_{Sc_{rear}}/I_{Sc_{front}}$ , as defined in IEC TS 60904-1-2.

The tolerance of Isc bifaciality coefficient ( $\phi_{Isc}$ ) is claimed by client.

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