

Certificate



This certifies that the company:

Hanwha Q CELLS GmbH
Sonnenallee 17-21 06766
Bitterfeld-Wolfen,
Germany

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)
(details see Annex 2): **Crystalline Silicon Terrestrial Photovoltaic (PV) Modules**

Trademark: See Annex 1

Certification scheme: P12.4-VA-01 Rev. 01 / 01.26 Certification scheme type: Type 5 acc. to ISO/IEC 17067:2013

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 25 406749 - 114R2M2

Report no.: 492013733.003

File no.: PVP03038/26P-01

Valid from: 2026-05-12

Valid until: 2029-02-25

Essen, 2026-05-12

Certification Body - Consumer Products

TÜV NORD CERT GmbH

Am TÜV 1, 45307 Essen, Germany

tuev-nord-cert.de | prodcert@tuev-nord.de

Please also pay attention to the information stated overleaf.

TÜV®



Scan the QR code or
visit cis.tuev-nord.com.cn to verify
the validity of the
certificate

Annex 2

to certificate registration no. 44 780 25 406749 – 114R2M2

Description of product(s):

Module types:

Double Glass PV Modules with Half-cut 7" TOPCon Mono-crystalline Silicon Solar Cells:

108 cells: Q.TRON M-G3R.12+/BGT xxx (xxx = 475-535, in increment of 5)
 108 cells: Q.TRON M-G3R.12+/BFG xxx (xxx = 475-535, in increment of 5)
 96 cells: Q.TRON S-G3R.12+/BFG xxx (xxx = 420-475, in increment of 5)
 96 cells: Q.TRON BLK S-G3R.12+/BFG xxx (xxx = 420-475, in increment of 5)
 96 cells: Q.TRON S-G3R.12+/MFG xxx (xxx = 425-475, in increment of 5)
 96 cells: Q.TRON BLK S-G3R.12+/MFG xxx (xxx = 425-475, in increment of 5)
 Remark: xxx indicates output power from the front side only.

Maximum system voltage:	1500V
Maximum overcurrent protection rating:	30A
Electrical protection class:	Class II
Pollution degree:	1
98 th percentile module operating temperature (T ₉₈):	70°C
Design load (positive / negative):	3600Pa / 1600Pa, refer to CDF for details
Safety factors:	1.5
Fire safety class:	Class A according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018), refer to CDF for details
Isc bifaciality coefficient (ϕ _{Isc}):	80% ± 5%, refer to CDF for details

Remark:

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

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

The tolerance of Isc bifaciality coefficient (ϕ_{Isc}) is claimed by client.

Essen, 2026-05-12

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