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Certified Product

Photovoltaic modules: see below

Certificate Holder: Hanwha Q CELLS GmbH

Test Mark Number: 1111220277



The test entails:

- IEC 61215
- IEC 61730
- Regular Production Surveillance

Product "Photovoltaic modules, Type with 72 solar cells (156,75 mm x 156,75 mm) Q.PLUS L-G4.2 XXX B.LINE PLUS L-G4.2 XXX Q.PEAK L-G4.2 XXX B.LINE PEAK L-G4.2 XXX Q.PEAK L-G4.5 XXX B.LINE PEAK L-G4.5 XXX Q.PEAK L-G5.2 XXX (XXX = 325 - 405 in steps of 5) Type with 72 solar cells (156,75 mm x 156,75 mm): Q.PLUS L-G4.1 XXX B.LINE PLUS L-G4.1 XXX Q.PEAK L-G4.1 XXX B.LINE PEAK L-G4.1 XXX Q.PEAK L-G5.1 XXX B.LINE PEAK L-G4.4 XXX Q.PEAK L-G4.4 XXX (XXX = 325 - 405 in steps of 5) Type with 60 solar cells (156,75 mm x 156,75 mm): Q.PLUS-G4.2 XXX B.LINE PLUS-G4.2 XXX Q.PEAK-G4.2 XXX B.LINE PEAK-G4.2 XXX Q.PEAK-G4.5 XXX B.LINE PEAK-G4.5 XXX (XXX = 270 - 335 in steps of 5) Type with 60 solar cells (156,75 mm x 156,75 mm): Q.PLUS-G4.1 XXX Q.PLUS-G4.3 XXX B.LINE PLUS-G4.3 XXX Q.PLUS BLK-G4.3 XXX B.LINE PLUS BLK-G4.3 XXX Q.PLUS BFR-G4.1 XXX B.LINE PLUS BFR-G4.1 XXX Q.PLUS BLK-G4.1 XXX B.LINE PLUS BLK-G4.1 XXX Q.PEAK-G4.1 XXX B.LINE PEAK-G4.1 XXX Q.PEAK-G5.1 XXX Q.PEAK BLK-G4.1 XXX B.LINE PEAK BLK-G4.1 XXX Q.PEAK BLK-G5.1 XXX Q.PEAK-G4.4 XXX B.LINE PEAK-G4.4 XXX Q.PEAK BLK-G4.4 XXX B.LINE PEAK BLK-G4.4 XXX (XXX = 270 - 335 in steps of 5) Type with 144 half cut solar cells (156,75mm x 78,38 mm): Q.PLUS DUO L-G5.2 XXX B.LINE PLUS DUO L-G5.2 XXX Q.PLUS DUO L-G5.3 XXX Q.PLUS DUO RSF L-G5.2 XXX B.LINE PLUS DUO RSF L-G5.2 XXX Q.PLUS DUO RSF L-G5.3 XXX B.LINE PLUS DUO RSF L-G5.3 XXX Q.PEAK DUO L-G5.2 XXX B.LINE PEAK DUO L-G5.2 XXX Q.PEAK DUO L-G5.3 XXX B.LINE PEAK DUO L-G5.3 XXX Q.PEAK DUO L-G7.2 XXX B.LINE PEAK DUO L-G7.2 XXX Q.PEAK DUO L-G7.3 XXX B.LINE PEAK DUO L-G7.3 XXX Q.PEAK DUO RSF L-G7.3 XXX B.LINE PEAK DUO RSF L-G7.3 XXX Q.PEAK DUO L-G7.6 XXX B.LINE PEAK DUO L-G7.6 XXX Q.PEAK DUO L-G7.7 XXX B.LINE PEAK DUO L-G7.7

XXX (XXX = 325 - 405 in steps of 5) Type with 144 half cut solar cells (156,75mm x 78,38 mm): Q.PLUS DUO L-G5 XXX B.LINE PLUS DUO L-G5 XXX Q.PLUS DUO L-G7 XXX B.LINE PLUS DUO L-G7 XXX Q.PLUS DUO RSF L-G5 XXX B.LINE PLUS DUO RSF L-G5 XXX Q.PLUS DUO RSF L-G7 XXX B.LINE PLUS DUO RSF L-G7 XXX Q.PEAK DUO L-G5 XXX B.LINE PEAK DUO L-G5 XXX Q.PEAK DUO L-G7 XXX B.LINE PEAK DUO L-G7 XXX Q.PEAK DUO L-G5.1 XXX B.LINE PEAK DUO L-G5.1 XXX Q.PEAK DUO L-G7.1 XXX B.LINE PEAK DUO L-G7.1 XXX Q.PEAK DUO L-G7.4 XXX B.LINE PEAK DUO L-G7.4 XXX Q.PEAK DUO L-G7.5 XXX B.LINE PEAK DUO L-G7.5 XXX (XXX = 325 - 405 in steps of 5) Type with 120 half cut solar cells (156,75mm x 78,38 mm): Q.PLUS DUO-G5 XXX B.LINE PLUS DUO-G5 XXX Q.PLUS DUO BFR-G5 XXX B.LINE PLUS DUO BFR-G5 XXX Q.PLUS DUO BLK-G5 XXX B.LINE PLUS DUO BLK-G5 XXX Q.PLUS DUO-G5.1 XXX B.LINE PLUS DUO-G5.1 XXX Q.PLUS DUO BFR-G5.1 XXX B.LINE PLUS DUO BFR-G5.1 XXX Q.PEAK DUO-G5 XXX B.LINE PEAK DUO-G5 XXX Q.PEAK DUO-G7 XXX B.LINE PEAK DUO-G7 XXX Q.PEAK DUO BLK-G5 XXX B.LINE PEAK DUO BLK-G5 XXX Q.PEAK DUO BLK-G7 XXX B.LINE PEAK DUO BLK-G7 XXX Q.PEAK DUO-G5.1 XXX B.LINE PEAK DUO-G5.1 XXX Q.PEAK DUO-G7.1 XXX B.LINE PEAK DUO-G7.1 XXX Q.PEAK DUO BLK-G5.1 XXX B.LINE PEAK DUO BLK-G5.1 XXX Q.PEAK DUO BLK-G7.1 XXX B.LINE PEAK DUO BLK-G7.1 XXX Q.PEAK DUO-G7.4 XXX B.LINE PEAK DUO-G7.4 XXX (XXX = 270 - 335 in steps of 5) Type with 120 half cut solar cells (156,75mm x 78,38 mm): Q.PLUS DUO-G5.2 XXX Q.PEAK DUO-G5.2 XXX Q.PEAK DUO-G7.2 XXX B.LINE PEAK DUO-G7.2 XXX Q.PEAK DUO-G7.3 XXX B.LINE PEAK DUO-G7.3 XXX Q.PEAK DUO-G7.5 XXX B.LINE PEAK DUO-G7.5 XXX (XXX = 270 - 335 in steps of 5) Type with 144 half cut solar cells (161,70mm x 80,80 mm): Q.PEAK DUO L-G6.2 XXX B.LINE PEAK DUO L-G6.2 XXX Q.PEAK DUO L-G6.3 XXX B.LINE PEAK DUO L-G6.3 XXX Q.PEAK DUO L-G8.2 XXX B.LINE PEAK DUO L-G8.2 XXX Q.PEAK DUO L-G8.3 XXX B.LINE PEAK DUO L-G8.3 XXX (XXX = 325 - 415 in steps of 5) Type with 144 half cut solar cells (161,70mm x 80,80 mm): Q.PEAK DUO L-G6 XXX B.LINE PEAK DUO L-G6 XXX Q.PEAK DUO L-G6.1 XXX B.LINE PEAK DUO L-G6.1 XXX Q.PEAK DUO L-G8 XXX B.LINE PEAK DUO L-G8 XXX Q.PEAK DUO L-G8.1 XXX B.LINE PEAK DUO L-G8.1 XXX (XXX = 325 - 415 in steps of 5) Type with 120 half cut solar cells (161,70mm x 80,80 mm): Q.PEAK DUO-G6.2 XXX B.LINE PEAK DUO-G6.2 XXX Q.PEAK DUO-G6.3 XXX B.LINE PEAK DUO-G6.3 XXX (XXX = 270 - 345 in steps of 5) Type with 120 half cut solar cells (161,70mm x 80,80 mm): Q.PEAK DUO-G6 XXX B.LINE PEAK DUO-G6 XXX Q.PEAK DUO-G6.1 XXX B.LINE PEAK DUO-G6.1 XXX Q.PEAK DUO BLK-G6 XXX B.LINE PEAK DUO BLK-G6 XXX Q.PEAK DUO BLK-G6.1 XXX B.LINE PEAK DUO BLK-G6.1 XXX Q.PEAK DUO-G6+ XXX B.LINE PEAK DUO-G6+ XXX Q.PEAK DUO BLK-G6+ XXX B.LINE PEAK DUO BLK-G6+ XXX Q.PEAK DUO-G8 XXX B.LINE PEAK DUO-G8 XXX Q.PEAK DUO BLK-G8 XXX B.LINE PEAK DUO BLK-G8 XXX Q.PEAK DUO-G8+ XXX B.LINE PEAK DUO-G8+ XXX Q.PEAK DUO BLK-G8+ XXX B.LINE PEAK DUO BLK-G8+ XXX (XXX = 270 - 345 in steps of 5) Type with 48 solar cells (156,75 mm x 156,75 mm): Q.PEAK S-G4.1 XXX B.LINE PEAK S-G4.1 XXX Q.PEAK S-G5.1 XXX B.LINE PEAK S-G5.1 XXX Q.PEAK S-G4.4 XXX B.LINE PEAK S-G4.4 XXX Q.PEAK S-G5.4 XXX B.LINE PEAK S-G5.4 XXX Q.PEAK S BLK-G4.1 XXX B.LINE PEAK S BLK-G4.1 XXX Q.PEAK S BLK-G5.1 XXX B.LINE PEAK S BLK-G5.1 XXX Q.PEAK S BLK-G4.4 XXX B.LINE PEAK S BLK-G4.4 XXX Q.PEAK S BLK-G5.4 XXX B.LINE PEAK S BLK-G5.4 XXX (XXX = 215 - 265 in steps of 5) Type with 32 solar cells (156,75 mm x 156,75 mm): Q.PEAK XS-G4.1 XXX B.LINE PEAK XS-G4.1 XXX Q.PEAK XS-G5.1 XXX B.LINE PEAK XS-G5.1 XXX Q.PEAK XS-G4.4 XXX B.LINE PEAK XS-G4.4 XXX Q.PEAK XS-G5.4 XXX B.LINE PEAK XS-G5.4 XXX Q.PEAK XS BLK-G4.1 XXX B.LINE PEAK XS BLK-G4.1 XXX Q.PEAK XS BLK-G5.1 XXX B.LINE PEAK XS BLK-G5.1 XXX Q.PEAK XS BLK-G4.4 XXX B.LINE PEAK XS BLK-G4.4 XXX Q.PEAK XS BLK-G5.4 XXX B.LINE PEAK XS BLK-G5.4 XXX (XXX = 140 - 175 in steps of 5)" as named in the certificate was tested by TÜV Rheinland Energy GmbH and fulfills the defined requirements.

Show certificate data...

The Photovoltaic (PV) modules of **Hanwha Q CELLS GmbH** were tested by TÜV Rheinland Energy GmbH according to the following standards:

*IEC 61215-1:2016 / EN 61215-1: 2016: Terrestrial photovoltaic (PV) modules
- Design qualification and type approval - Part 1: Test requirements*

*IEC 61215-1-1:2016 / EN 61215-1-1:2016: Terrestrial photovoltaic (PV) modules
- Design qualification and type approval - Part 1-1: Special requirements
for testing of crystalline silicon photovoltaic (PV) modules*

IEC 61215-2:2016 / EN 61215-2:2017: Terrestrial photovoltaic (PV) modules

- Design qualification and type approval - Part 2: Test procedures

*IEC 61730-1:2016 / EN 61730-1:2018: Photovoltaic (PV) module safety qualification
- Part 1: Requirements for construction*

*IEC 61730-2:2016 / EN 61730-2:2018: Photovoltaic (PV) module safety qualification
- Part 2: Requirements for testing*

The test procedure comprises two major aspects:

Description:

1) Sample testing:

The accredited laboratory of TÜV Rheinland runs product tests on selected test samples to verify that these samples fulfil the requirements of the relevant standards.

The testing includes among other features:

- Hail test
- UV-exposure test
- Damp-heat test
- Mechanical load test
- Hot-spot endurance test
- Cut susceptibility test
- Humidity-freeze test
- Module breakage test

2) Periodic inspection:

TÜV Rheinland experts perform periodic quality and production control at the manufacturing site(s) to ensure that all produced PV modules are manufactured with the same materials, using the same processes and at the same quality level as the laboratory tested samples.

Further information on the test criteria and procedures can be found under Certified Properties next to the test mark on this page.

Further information by the certificate holder about the certified product:

The certificate holder has not provided further information about the certified product.

All certificates of Hanwha Q CELLS GmbH:

2 certificates for products

Hanwha Q CELLS GmbH

Contact to the certificate holder:

Sonnenallee 17-21
06766 Bitterfeld-Wolfen
Germany

Further Information

- All product certificates of Hanwha Q CELLS GmbH

- Request more information on Hanwha Q CELLS GmbH

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