

# CERTIFICATE

**TÜV NORD CERT GmbH**  
herewith declares that

**NINGBO POLYCROWN SOLAR ENERGY TECHNOLOGY CO., LTD**  
NO.363, XIANI BRIDGE, XIAOJIA RIVER ROAD, XIAOGANG STREET  
NINGBO CITY, ZHEJIANG  
CHINA

is authorized to provide the product mentioned below with the mark as illustrated:

**Description of product (details see Annex 2):**

**Crystalline Silicon Terrestrial Photovoltaic (PV) Modules**



Valid from: 2022-09-22

Valid until: 2025-09-28

Certification program:	P12-VA-01 Rev. 17 09.20
Certification fundamental(s):	IEC / EN 61215-1:2016; IEC / EN 61215-1-1:2016; IEC 61215-2:2016 / EN 61215-2:2017 + AC:2017 + AC:2018; IEC 61730-1:2016 / EN IEC 61730-1:2018 + AC:2018; IEC 61730-2:2016 / EN IEC 61730-2:2018 + AC:2018.
Registered No.:	44 780 22 406749 - 221
Manufacturer:	see Annex 1
Test Report No.:	492012180.001
File No.:	PVP09011/22P



**TÜV NORD CERT GmbH**  
**Certification Body**  
**Consumer Products**



Essen, 2022-09-22

Please also pay attention to the information stated overleaf.

**Manufacturer:**

Manufacturer 1: **Coded by debtor no. 55536522**

Factory inspection report no.: 862010414.004

Manufacturer 2: **Coded by debtor no. 55536523**

Factory inspection report no.: 862010507.002

Manufacturer 3: **Coded by debtor no. 55536525**

Factory inspection report no.: 862010233.007

Manufacturer 4: **Coded by debtor no. 55536526**

Factory inspection report no.: 862010591.001

**Remark:**

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



**TÜV NORD CERT GmbH**  
**Certification Body**  
**Consumer Products**

**Description of product(s):**

Module types:	<b>PV Modules with 6" Mono-crystalline Silicon Solar Cells</b> 72 cells: NS-XXXMH-72 (xxx = 370-400, in increment of 5) 60 cells: NS-XXXMH-60 (xxx = 310-330, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	15A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I
Design load (positive / negative):	3600Pa / 1600Pa
Safety factors:	1.5
Fire safety class:	Class C according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018)

Module types:	<b>PV Modules with 6" Half-cut Mono-crystalline Silicon Solar Cells</b> 144 cells: NS-XXXMH-144 (xxx = 430-465, in increment of 5) 144 cells: NS-XXXMH-144 (xxx = 395-420, in increment of 5) 120 cells: NS-XXXMH-120 (xxx = 360-385, in increment of 5) 120 cells: NS-XXXMH-120 (xxx = 330-350, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	15A or 20A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I
Design load (positive / negative):	3600Pa / 1600Pa
Safety factors:	1.5
Fire safety class:	Class C according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018)



**TÜV NORD CERT GmbH**  
Certification Body  
Consumer Products

Module types:	<b>PV Modules with 7" Half-cut Mono-crystalline Silicon Solar Cells</b> 156 cells: NS-XXXMH-156 (xxx = 565-595, in increment of 5) 144 cells: NS-XXXMH-144 (xxx = 520-555, in increment of 5) 132 cells: NS-XXXMH-132 (xxx = 475-510, in increment of 5) 120 cells: NS-XXXMH-120 (xxx = 435-460, in increment of 5) 108 cells: NS-XXXMH-108 (xxx = 390-415, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	25A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I
Design load (positive / negative):	3600Pa / 1600Pa
Safety factors:	1.5
Fire safety class:	Class C according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018)

Module types:	<b>PV Modules with 8" Half-cut Mono-crystalline Silicon Solar Cells</b> 132 cells: NS-XXXMH-132 (xxx = 640-670, in increment of 5) 120 cells: NS-XXXMH-120 (xxx = 580-610, in increment of 5) 108 cells: NS-XXXMH-108 (xxx = 525-545, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	30A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I
Design load (positive / negative):	3600Pa / 1600Pa
Safety factors:	1.5
Fire safety class:	Class C according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018)

## Remark:

For detailed product information, please refer to CDF (Constructional Data Form) in Annex 1 of test report.



**TÜV NORD CERT GmbH**  
Certification Body  
Consumer Products

**Certificate  
of conformity with the following  
European Directives**

Registered No.:  
**44 799 22 406749 - 135**

**Low-Voltage Directive 2014/35/EU**

Date of application	File reference	Test report No.	Date of issue	Place of issue
2022-05-02	PVP09011/22P	492012180.001	2022-09-22	Essen

This is to certify that the following products comply to the essential requirements of the above mentioned European Directive and the following standards, taking into account the German national deviations:

**Product:** Crystalline Silicon Terrestrial Photovoltaic (PV) Modules

**Type designation:** See Annex 1

**Applicant:** **NINGBO POLYCROWN SOLAR ENERGY TECHNOLOGY CO., LTD**  
NO.363, XIANI BRIDGE, XIAOJIA RIVER ROAD, XIAOGANG STREET,  
NINGBO CITY, ZHEJIANG, CHINA

**Standard(s):** EN IEC 61730-1:2018; EN IEC 61730-1:2018/AC:2018-06  
EN IEC 61730-2:2018; EN IEC 61730-2:2018/AC:2018-06

This Certificate of conformity is based on the evaluation of samples of the product. It does not imply an assessment of the production and it does not permit the use of a mark of conformity or of a safety mark of the TÜV NORD CERT GmbH. The holder of this certificate may use this Certificate together with his EC-Declaration of Conformity.



Certification Body  
Specialist Manager Consumer Products

**TÜV NORD CERT GmbH**  
Am TÜV 1  
D-45307 Essen  
P.O.Box 10 32 61  
D-45032 Essen  
Fon: +49 (0)201 825-5120  
Fax: +49 (0)201 825-3209  
Email: [prodcert@tuev-nord.de](mailto:prodcert@tuev-nord.de)

**Description of product(s):**

- Module types: **PV Modules with 6" Mono-crystalline Silicon Solar Cells**  
72 cells: NS-XXXMH-72 (xxx = 370-400, in increment of 5)  
60 cells: NS-XXXMH-60 (xxx = 310-330, in increment of 5)
- Module types: **PV Modules with 6" Half-cut Mono-crystalline Silicon Solar Cells**  
144 cells: NS-XXXMH-144 (xxx = 430-465, in increment of 5)  
144 cells: NS-XXXMH-144 (xxx = 395-420, in increment of 5)  
120 cells: NS-XXXMH-120 (xxx = 360-385, in increment of 5)  
120 cells: NS-XXXMH-120 (xxx = 330-350, in increment of 5)
- Module types: **PV Modules with 7" Half-cut Mono-crystalline Silicon Solar Cells**  
156 cells: NS-XXXMH-156 (xxx = 565-595, in increment of 5)  
144 cells: NS-XXXMH-144 (xxx = 520-555, in increment of 5)  
132 cells: NS-XXXMH-132 (xxx = 475-510, in increment of 5)  
120 cells: NS-XXXMH-120 (xxx = 435-460, in increment of 5)  
108 cells: NS-XXXMH-108 (xxx = 390-415, in increment of 5)
- Module types: **PV Modules with 8" Half-cut Mono-crystalline Silicon Solar Cells**  
132 cells: NS-XXXMH-132 (xxx = 640-670, in increment of 5)  
120 cells: NS-XXXMH-120 (xxx = 580-610, in increment of 5)  
108 cells: NS-XXXMH-108 (xxx = 525-545, in increment of 5)



**TÜV NORD CERT GmbH**  
Certification Body  
Consumer Products