

**To / 致:**

Company / 公司: Tongwei Co., Ltd.

Contact / 联系人: Mr. Yang Wei

Email / 邮箱: YANGW012@tongwei.com

**From / 自:**Company / 公司: TÜV NORD (HANGZHOU)  
CO., LTD. / 杭州汉德质量认证  
服务有限公司

Contact / 联系人: Mrs. Serena.Wu/ 郭玉婷 女士

Email / 邮箱: sewu@tuv-nord.com

**Subject: Announcement of cancellation****主题: 证书取消通知**

File No.: PVP07143/25P-05

项目号:

License holder: **Tongwei Co., Ltd.**持证人: No. 588, Middle Section Tianfu Avenue, High-Tech Zone,  
Chengdu, China (Sichuan) Pilot Free Trade Zone

Certificate No.: 44 780 24 406749 - 207R7A1M20

证书号:

Product: Crystalline Silicon Terrestrial Photovoltaic (PV) Modules

产品: 地面用晶体硅光伏组件

Herewith it is declared, that the above noted certificate(s) has (have) been invalidated since 2026-01-20  
特此声明, 上述证书自 2026 年 1 月 20 日起失效。

The cancellation is due to:

取消原因:

☐ License holder applied for cancellation.

持证人申请取消。

☒ New certificate(s) (no: 44 780 24 406749 - 207R8A1M21) has (have) been issued to replace the cancelled one(s).新证书(证书号: 44 780 24 406749 - 207R8A1M21) 签发, 取代旧证书。☐ Certificate(s) is (are) expired.

证书有效期至。

☐ Certificate(s) has (have) been suspended for one year, and the factory inspection, verification, and rectification required to restore the certificate(s) has (have) not been completed.

证书暂停满一年, 未完成恢复证书所需厂检、核查、整改等。

☐ Certificate(s) has (have) been suspended for one year, and the annual certificate fee has (have) not been paid.

证书暂停满一年, 未支付证书年费。

☐ Others: \_\_\_\_\_

其他情况: \_\_\_\_\_

Please pay attention to stop using the invalid certificate(s) from 2026-01-20 Meanwhile, please send back the original copies of above mentioned certificate(s) to us.

请注意从 2026 年 1 月 20 日开始停止使用无效证书。同时，请将上述证书原件寄回给我们。

TÜV NORD reserved the right of final explanation about the cancellation of certificate(s). TÜV NORD will not take any responsibility for the circumstance of misusing the invalid certificate(s) by the license holder or the manufacturer.

TÜV NORD 保留对证书取消的最终解释权。TÜV NORD 对证书持有者或制造商滥用无效证书的情况不承担任何责任。

Renewable Energy / 可再生能源

TÜV NORD (Hangzhou) Co., Ltd. / 杭州汉德质量认证服务有限公司



Serena.Wu/ 邬玉婷

Technical Support / 技术支持

# Certificate



This certifies that the company:

**Tongwei Co., Ltd.**

No. 588, Middle Section Tianfu Avenue,  
High-Tech Zone, Chengdu,  
China (Sichuan) Pilot Free Trade Zone

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): P12.4-AA-02 Rev. 00 / 04.18 (IEC TS 62804-1:2015 modified)

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 - 207R8A1M21

Report no.: 492013175.022

File no.: PVP12129/25P-05

Remark: Test temperature: 85°C;  
Relative humidity: 85%;  
Test duration: 192 hours.

Valid from: 2026-01-20

Valid until: 2029-05-26

Essen, 2026-01-20

Certification Body - Consumer Products

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Please also pay attention to the information stated overleaf.

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Visit our database to  
verify the validity of  
this certificate.

# Annex 1

to certificate registration no. 44 780 24 406749 – 207R8A1M21

|                                |                                                                                                                                                       |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Manufacturer:</b>           | <b>Tongwei Co., Ltd.</b><br>No. 588, Middle Section Tianfu Avenue, High-Tech Zone, Chengdu,<br>China (Sichuan) Pilot Free Trade Zone                  |
| <b>Factory 1:</b>              | <b>Tongwei Solar (Hefei) Co., Ltd.</b><br>No.888, Changning Road, High-tech District,<br>Hefei City, Anhui Province, 230088, P.R. China               |
| Factory inspection report no.: | 862010358.009                                                                                                                                         |
| <b>Factory 2:</b>              | <b>Tongwei Solar (Yancheng) Co., Ltd.</b><br>No. 88, Jiuhuashan Road, Economic Development Zone,<br>Yancheng City, Jiangsu Province, China            |
| Factory inspection report no.: | 862010763.003                                                                                                                                         |
| <b>Factory 3:</b>              | <b>Tongwei Solar (Sichuan) Co., Ltd.</b><br>No.888, Jilin East Road, Huai Kou Street, Jintang County, Chengdu City,<br>Sichuan Province               |
| Factory inspection report no.: | 862010782.003                                                                                                                                         |
| <b>Factory 4:</b>              | <b>Tongwei Solar (Nantong) Co., LTD</b><br>No. 8, Bonded 10 Road, Economic Development Zone, Nantong City,<br>Jiangsu Province, P. R. China           |
| Factory inspection report no.: | 862010863.003                                                                                                                                         |
| <b>Factory 5:</b>              | <b>Tongwei Solar (Chengdu) Co., LTD</b><br>No. 888, Linjiaci Road, Huangjia Subdistrict, Shuangliu District, Chengdu<br>City, Sichuan Province, China |
| Factory inspection report no.: | 862010864.003                                                                                                                                         |

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 – 207R8A1M21

## Description of product(s):

Module types:

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

156 cells: TWMPD-78HDxxx (xxx = 570-615, in increment of 5)  
 156 cells: TWxxxMBAP-156-D (xxx = 575-615, in increment of 5)  
 156 cells: TWxxxMBGP-156-D (xxx = 570-610, in increment of 5)  
 144 cells: TWMPD-72HDxxx (xxx = 525-565, in increment of 5)  
 144 cells: TWxxxMBAP-144-D (xxx = 530-565, in increment of 5)  
 144 cells: TWxxxMBGP-144-D (xxx = 525-560, in increment of 5)  
 132 cells: TWMPD-66HDxxx (xxx = 480-520, in increment of 5)  
 132 cells: TWxxxMBAP-132-D (xxx = 485-520, in increment of 5)  
 132 cells: TWxxxMBGP-132-D (xxx = 480-515, in increment of 5)  
 120 cells: TWMPD-60HDxxx (xxx = 440-470, in increment of 5)  
 120 cells: TWxxxMBAP-120-D (xxx = 440-470, in increment of 5)  
 120 cells: TWxxxMBGP-120-D (xxx = 440-470, in increment of 5)  
 108 cells: TWMPD-54HDxxx (xxx = 395-425, in increment of 5)  
 108 cells: TWxxxMBAP-108-D (xxx = 400-425, in increment of 5)  
 108 cells: TWxxxMBGP-108-D (xxx = 395-420, in increment of 5)  
 144 cells: TWMPG-72HDxxx (xxx = 560-590, in increment of 5)  
 108 cells: TWMPG-54HDxxx (xxx = 420-440, in increment of 5)  
 108 cells: TWMPG-54HCxxx (xxx = 420-440, in increment of 5)  
 132 cells: TWMPH-66HDxxx (xxx = 575-590, in increment of 5)  
 120 cells: TWMPH-60HDxxx (xxx = 525-535, in increment of 5)  
 96 cells: TWMPH-48HDxxx (xxx = 420-430, in increment of 5)  
 96 cells: TWMPH-48HCxxx (xxx = 420-430, 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  
 98<sup>th</sup> percentile module operating temperature (T<sub>98</sub>): 70°C

Module types:

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

156 cells: TWMND-78HDxxx (xxx = 580-650, in increment of 5)  
 156 cells: TWxxxMBGT-156-D (xxx = 580-650, in increment of 5)

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144 cells: TWMND-72HDxxx (xxx = 535-605, in increment of 5)  
 144 cells: TWxxxMBGT-144-D (xxx = 535-605, in increment of 5)  
 132 cells: TWMND-66HDxxx (xxx = 490-555, in increment of 5)  
 132 cells: TWxxxMBGT-132-D (xxx = 490-555, in increment of 5)  
 120 cells: TWMND-60HDxxx (xxx = 445-505, in increment of 5)  
 120 cells: TWxxxMBGT-120-D (xxx = 445-505, in increment of 5)  
 108 cells: TWMND-54HDxxx (xxx = 400-450, in increment of 5)  
 108 cells: TWxxxMBGT-108-D (xxx = 400-450, in increment of 5)  
 144 cells: TWMNG-72HDxxx (xxx = 580-620, in increment of 5)  
 120 cells: TWMNG-60HDxxx (xxx = 485-515, in increment of 5)  
 120 cells: TWMNG-60HCxxx (xxx = 485-515, in increment of 5)  
 108 cells: TWMNG-54HDxxx (xxx = 435-465, in increment of 5)  
 108 cells: TWMNG-54HCxxx (xxx = 435-465, in increment of 5)  
 132 cells: TWMNH-66HDxxx (xxx = 580-655, in increment of 5)  
 120 cells: TWMNH-60HDxxx (xxx = 530-595, in increment of 5)  
 108 cells: TWMNH-54HDxxx (xxx = 475-535, in increment of 5)  
 108 cells: TWMNH-54HCxxx (xxx = 475-535, in increment of 5)  
 96 cells: TWMNH-48HDxxx (xxx = 420-475, in increment of 5)  
 96 cells: TWMNH-48HCxxx (xxx = 420-475, in increment of 5)  
 96 cells: TWMNH-48HExxx (xxx = 425-475, in increment of 5)  
 96 cells: TWMNH-48HWxxx (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  
 98<sup>th</sup> percentile module operating temperature (T<sub>98</sub>): 70°C

Module types:

**Double Glass PV Modules with Half-cut 8" PERC Mono-crystalline Silicon Solar Cells:**  
 132 cells: TWMPF-66HDxxx (xxx = 635-685, in increment of 5)  
 132 cells: TWxxxMBCP-132-D (xxx = 635-675, in increment of 5)  
 132 cells: TWxxxMBIP-132-D (xxx = 635-685, in increment of 5)  
 120 cells: TWMPF-60HDxxx (xxx = 580-620, in increment of 5)  
 120 cells: TWxxxMBCP-120-D (xxx = 580-610, in increment of 5)  
 120 cells: TWxxxMBIP-120-D (xxx = 580-620, in increment of 5)

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108 cells: TWMPF-54HDxxx (xxx = 520-560, in increment of 5)  
 108 cells: TWxxxMBIP-108-D (xxx = 520-550, in increment of 5)  
 108 cells: TWxxxMBIP-108-D (xxx = 520-560, in increment of 5)  
 110 cells: TWMPF-55HDxxx (xxx = 530-570, in increment of 5)  
 110 cells: TWxxxMBIP-110-D (xxx = 530-560, in increment of 5)  
 110 cells: TWxxxMBIP-110-D (xxx = 530-570, in increment of 5)  
 100 cells: TWMPF-50HDxxx (xxx = 480-515, in increment of 5)  
 100 cells: TWxxxMBIP-100-D (xxx = 480-510, in increment of 5)  
 100 cells: TWxxxMBIP-100-D (xxx = 480-515, in increment of 5)  
 Remark: xxx indicates output power from the front side only.

Maximum system voltage: 1500V  
 Maximum overcurrent protection rating: 35A  
 Electrical protection class: Class II  
 98<sup>th</sup> percentile module operating temperature (T<sub>98</sub>): 70°C

Module types:

**Double Glass PV Modules with Half-cut 8" TOPCon Mono-crystalline Silicon Solar Cells:**

132 cells: TWMNF-66HDxxx (xxx = 665-755, in increment of 5)  
 132 cells: TWxxxMBIT-132-D (xxx = 665-755, in increment of 5)  
 120 cells: TWMNF-60HDxxx (xxx = 605-685, in increment of 5)  
 120 cells: TWxxxMBIT-120-D (xxx = 605-685, in increment of 5)  
 108 cells: TWMNF-54HDxxx (xxx = 545-615, in increment of 5)  
 108 cells: TWxxxMBIT-108-D (xxx = 545-615, in increment of 5)  
 110 cells: TWMNF-55HDxxx (xxx = 530-570, in increment of 5)  
 110 cells: TWxxxMBIT-110-D (xxx = 530-570, in increment of 5)  
 100 cells: TWMNF-50HDxxx (xxx = 480-515, in increment of 5)  
 100 cells: TWxxxMBIT-100-D (xxx = 480-515, in increment of 5)  
 Remark: xxx indicates output power from the front side only.

Maximum system voltage: 1500V  
 Maximum overcurrent protection rating: 35A  
 Electrical protection class: Class II

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98<sup>th</sup> percentile module operating temperature (T<sub>98</sub>): 70°C

Module types:

**Double Glass PV Modules with Half-cut 8" HJT Mono-crystalline Silicon Solar Cells:**

132 cells: TWMHF-66HDxxx (xxx = 670-740, in increment of 5)

120 cells: TWMHF-60HDxxx (xxx = 605-670, in increment of 5)

Remark: xxx indicates output power from the front side only.

Maximum system voltage: 1500V

Maximum overcurrent protection rating: 35A

Electrical protection class: Class II

98<sup>th</sup> percentile module operating temperature (T<sub>98</sub>): 70°C

Module types:

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

132 cells: TWMBH-66HDxxx (xxx = 635-670, in increment of 5)

120 cells: TWMBH-60HDxxx (xxx = 580-610, in increment of 5)

108 cells: TWMBH-54HDxxx (xxx = 520-545, in increment of 5)

96 cells: TWMBH-48HDxxx (xxx = 460-485, in increment of 5)

Remark: xxx indicates output power from the front side only.

Maximum system voltage: 1500V

Maximum overcurrent protection rating: 35A

Electrical protection class: Class II

98<sup>th</sup> percentile module operating temperature (T<sub>98</sub>): 70°C

Module types:

**Double Glass PV Modules with 1/3 cut 7" TOPCon Mono-crystalline Silicon Solar Cells:**

198 cells: TWMNH-66TDxxx (xxx = 615-670, in increment of 5)

180 cells: TWMNH-60TDxxx (xxx = 560-610, in increment of 5)

162 cells: TWMNH-54TDxxx (xxx = 505-545, in increment of 5)

144 cells: TWMNH-48TDxxx (xxx = 450-485, in increment of 5)

Remark: xxx indicates output power from the front side only.

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Maximum system voltage: 1500V  
Maximum overcurrent protection rating: 35A  
Electrical protection class: Class II  
98<sup>th</sup> percentile module operating temperature (T<sub>98</sub>): 70°C

Module types:

**Double Glass PV Modules with 1/4 cut 7" TOPCon Mono-crystalline Silicon Solar Cells:**

264 cells: TWMNH-66QDxxx (xxx = 615-670, in increment of 5)  
240 cells: TWMNH-60QDxxx (xxx = 560-610, in increment of 5)  
216 cells: TWMNH-54QDxxx (xxx = 505-545, in increment of 5)  
204 cells: TWMNH-51QDxxx (xxx = 475-515, in increment of 5)  
192 cells: TWMNH-48QDxxx (xxx = 450-485, in increment of 5)  
192 cells: TWMNH-48QExxx (xxx = 450-495, in increment of 5)  
192 cells: TWMNH-48QWxxx (xxx = 450-495, in increment of 5)  
Remark: xxx indicates output power from the front side only.

Maximum system voltage: 1500V  
Maximum overcurrent protection rating: 35A  
Electrical protection class: Class II  
98<sup>th</sup> percentile module operating temperature (T<sub>98</sub>): 70°C

Module types:

**Double Glass PV Modules with 1/4 cut 8" TOPCon Mono-crystalline Silicon Solar Cells:**

264 cells: TWMNF-66QDxxx (xxx = 720-770, in increment of 5)  
Remark: xxx indicates output power from the front side only.

Maximum system voltage: 1500V  
Maximum overcurrent protection rating: 35A  
Electrical protection class: Class II  
98<sup>th</sup> percentile module operating temperature (T<sub>98</sub>): 70°C

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**Remark:**

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

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