

To / 致:

Company / 公司: Tongwei Co., Ltd.

Contact / 联系人: Mr. Wei Yang

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.: PVP04158/25P-01

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 406749-028R6M12

证书号:

Product: Crystalline Silicon Terrestrial Photovoltaic (PV) Modules

产品: 晶硅光伏组件

Herewith it is declared, that the above noted certificate(s) has (have) been invalidated since 2025-08-12
特此声明, 上述证书自 2025 年 08 月 12 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 - 028R6M13) has (have) been issued to replace the cancelled one(s).新证书(证书号: 44 780 24 406749 - 028R6M13) 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 2025-08-12. Meanwhile, please send back the original copies of above mentioned certificate(s) to us.

请注意从 2025 年 08 月 12 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

TÜV NORD CERT GmbH

herewith declares that

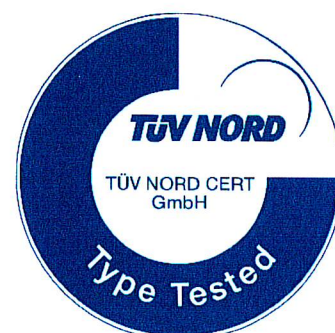
Tongwei Co., Ltd.

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

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

Description of product (details see Annex 2):

Crystalline Silicon Terrestrial Photovoltaic (PV) Modules



Valid from: 2025-08-12

Valid until: 2029-02-25

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.

Registered No.:

44 780 24 406749 - 028R6M13

Manufacturer and factory(-ies):

See Annex 1

Test Report No.:

492013017.016

File No.:

PVP05077/25P-01



Essen, 2025-08-12


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Please also pay attention to the information stated overleaf.

Manufacturer and factory(-ies):

Manufacturer:	Tongwei Co., Ltd. No. 588, Middle Section Tianfu Avenue, High-Tech Zone, Chengdu, China (Sichuan) Pilot Free Trade Zone
Factory 1:	Tongwei Solar (Hefei) Co., Ltd. No.888, Changning Road, High-tech District, Hefei City, Anhui Province, 230088, P.R. China
Factory inspection report no.:	862010358.008
Factory 2:	Tongwei Solar (Yancheng) Co., Ltd. No. 88, Jiuhuashan Road, Economic Development Zone, Yancheng City, Jiangsu Province, China
Factory inspection report no.:	862010763.003
Factory 3:	Tongwei Solar (Sichuan) Co., Ltd. No.888, Jilin East Road, Huai Kou Street, Jintang County, Chengdu City, Sichuan Province
Factory inspection report no.:	862010782.002
Factory 4:	Tongwei Solar (Nantong) Co., LTD No. 8, Bonded 10 Road, Economic Development Zone, Nantong City, Jiangsu Province, P. R. China
Factory inspection report no.:	862010863.003
Factory 5:	Tongwei Solar (Chengdu) Co., LTD No. 888, Linjiaci Road, Huangjia Subdistrict, Shuangliu District, Chengdu City, Sichuan Province, China
Factory inspection report no.:	862010864.002

Remark:

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



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Description of product(s):

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)

144 cells: TWMND-72HDxxx (xxx = 535-600, in increment of 5)

132 cells: TWMND-66HDxxx (xxx = 490-550, in increment of 5)

120 cells: TWMND-60HDxxx (xxx = 445-500, in increment of 5)

108 cells: TWMND-54HDxxx (xxx = 400-450, in increment of 5)

144 cells: TWMNG-72HDxxx (xxx = 580-615, in increment of 5)

120 cells: TWMNG-60HDxxx (xxx = 485-510, in increment of 5)

120 cells: TWMNG-60HCxxx (xxx = 485-510, in increment of 5)

108 cells: TWMNG-54HDxxx (xxx = 435-460, in increment of 5)

108 cells: TWMNG-54HCxxx (xxx = 435-460, 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 = 425-470, in increment of 5)

96 cells: TWMNH-48HWxxx (xxx = 425-475, in increment of 5)

xxx indicates rated output power generated from front side under STC

Maximum system voltage: 1500V

Maximum overcurrent protection rating: 30A

Electrical protection class: Class II

Pollution degree: 1

Design load (positive / negative): 3600Pa / 1600Pa, refer to CDF for details

Safety factors: 1.5

Fire safety class: Class A or Class C according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018), refer to CDF for details

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)

120 cells: TWMNF-60HDxxx (xxx = 605-685, in increment of 5)

108 cells: TWMNF-54HDxxx (xxx = 545-615, in increment of 5)

110 cells: TWMNF-55HDxxx (xxx = 530-565, in increment of 5)



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	100 cells: TWMNF-50HDxxx (xxx = 480-510, in increment of 5) xxx indicates rated output power generated from front side under STC
Maximum system voltage:	1500V
Maximum overcurrent protection rating:	35A
Electrical protection class:	Class II
Pollution degree:	1
Design load (positive / negative):	3600Pa / 1600Pa, refer to CDF for details
Safety factors:	1.5
Fire safety class:	Class A or Class C according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018), refer to CDF for details

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)
	144 cells: TWMPD-72HDxxx (xxx = 525-565, in increment of 5)
	132 cells: TWMPD-66HDxxx (xxx = 480-520, in increment of 5)
	120 cells: TWMPD-60HDxxx (xxx = 440-470, in increment of 5)
	108 cells: TWMPD-54HDxxx (xxx = 395-425, 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 = 575-585, in increment of 5)
	120 cells: TWMPH-60HDxxx (xxx = 525-530, in increment of 5)
	96 cells: TWMPH-48HDxxx (xxx = 420-425, in increment of 5)
	96 cells: TWMPH-48HCxxx (xxx = 420-425, in increment of 5)
	xxx indicates rated output power generated from front side under STC
Maximum system voltage:	1500V
Maximum overcurrent protection rating:	30A
Electrical protection class:	Class II
Pollution degree:	1
Design load (positive / negative):	3600Pa / 1600Pa, refer to CDF for details
Safety factors:	1.5
Fire safety class:	Class A or Class C according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018), refer to CDF for details



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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) 120 cells: TWMPF-60HDxxx (xxx = 580-620, in increment of 5) 108 cells: TWMPF-54HDxxx (xxx = 520-560, in increment of 5) 110 cells: TWMPF-55HDxxx (xxx = 530-565, in increment of 5) 100 cells: TWMPF-50HDxxx (xxx = 480-510, in increment of 5) xxx indicates rated output power generated from front side under STC
Maximum system voltage:	1500V
Maximum overcurrent protection rating:	35A
Electrical protection class:	Class II
Pollution degree:	1
Design load (positive / negative):	3600Pa / 1600Pa, refer to CDF for details
Safety factors:	1.5
Fire safety class:	Class A or Class C according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018), refer to CDF for details

Module types:	Double Glass PV Modules with Half-cut 8" HJT Mono-crystalline Silicon Solar Cells: 132 cells: TWMHF-66HDxxx (xxx = 660-740 in increment of 5) 120 cells: TWMHF-60HDxxx (xxx = 600-670, in increment of 5) xxx indicates rated output power generated from front side under STC
Maximum system voltage:	1500V
Maximum overcurrent protection rating:	35A
Electrical protection class:	Class II
Pollution degree:	1
Design load (positive / negative):	3600Pa / 1600Pa, refer to CDF for details
Safety factors:	1.5
Fire safety class:	Class A or Class C according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018), refer to CDF for details

Remark:

For detailed product information, please refer to CDF (Constructional Data Form).



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