

Certificate

of Conformity

This certifies that below described product(s) of the company:

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

comply to the essential requirements of the following standards

Description of product(s) (details see Annex): **Crystalline Silicon Terrestrial Photovoltaic (PV) Modules**

Certification program: P12-VA-01 Rev. 17 / 09.20

Certification fundamental(s): EN IEC 61730-1:2018, EN IEC 61730-2:2018

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 TÜV NORD CERT GmbH. The company may use this certificate as a basis of compliance with 2014/35/EU - low voltage directive, together with EU declaration of conformity (DoC) issued by the company. The CE marking may be affixed on the product if all relevant and effective directives and requirements are complied with, under full responsibility of the company.

Registration no.: 44 799 25 406749 - 375
Report no.: 492013017.027
File no.: PVP11086/25P-01

Essen, 2025-12-10

Certification Body - Consumer Products

TÜV NORD CERT GmbH
Am TÜV 1, 45307 Essen, Germany
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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

to certificate registration no. 44 799 25 406749 - 375

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 = 425-475, 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
 98th percentile module operating temperature (T₉₈): 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)
- 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)
- 100 cells: TWMNF-50HDxxx (xxx = 480-510, in increment of 5)

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	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
98 th percentile module operating temperature (T ₉₈):	70°C

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
98 th percentile module operating temperature (T ₉₈):	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)
 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)

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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
 98th percentile module operating temperature (T₉₈): 70°C

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
 98th percentile module operating temperature (T₉₈): 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)
 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
 98th percentile module operating temperature (T₉₈): 70°C

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Module types: **Double Glass PV Modules with 1/3 cut 7" TOPCon Mono-crystalline Silicon Solar Cells:**
 132 cells: TWMNH-66TDxxx (xxx = 615-670, in increment of 5)
 120 cells: TWMNH-60TDxxx (xxx = 560-610, in increment of 5)
 108 cells: TWMNH-54TDxxx (xxx = 505-545, in increment of 5)
 96 cells: TWMNH-48TDxxx (xxx = 450-485, 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
 98th percentile module operating temperature (T₉₈): 70°C

Module types: **Double Glass PV Modules with 1/4 cut 7" TOPCon Mono-crystalline Silicon Solar Cells:**
 132 cells: TWMNH-66QDxxx (xxx = 615-670, in increment of 5)
 120 cells: TWMNH-60QDxxx (xxx = 560-610, in increment of 5)
 108 cells: TWMNH-54QDxxx (xxx = 505-545, in increment of 5)
 96 cells: TWMNH-48QDxxx (xxx = 450-485, 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
 98th percentile module operating temperature (T₉₈): 70°C

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



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