

# Certificate

of Conformity

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

**JINNENG CLEAN ENERGY TECHNOLOGY LTD.**  
No.1 Wenshui Economic Development Zone  
Lvliang, Shanxi, 032100  
China

comply to the essential requirements of the following standards

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

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 26 406749 - 012  
Report no.:                         492013036.008  
File no.:                              PVP12029/25P

Essen, 2026-01-08

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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verify the validity of  
this certificate.

# Annex

to certificate registration no. 44 799 26 406749 – 012

## Description of product(s):

Module types:	<p><b>Double Glass PV Modules with 182 x 91mm n-type TOPCon Bifacial Mono Solar Cells:</b>            156 cells: JNBN156-xxx (xxx = 575-650, in increment of 5)            144 cells: JNBN144-xxx (xxx = 530-600, in increment of 5)            132 cells: JNBN132-xxx (xxx = 485-550, in increment of 5)            120 cells: JNBN120-xxx (xxx = 445-500, in increment of 5)            108 cells: JNBN108-xxx (xxx = 400-450, in increment of 5)            96 cells: JNBN96-xxx (xxx = 355-400, in increment of 5)            Remark: xxx only indicates maximum power output of the front side.</p>
Maximum system voltage:	1500V
Maximum overcurrent protection rating:	30A
Electrical protection class:	Class II
Pollution degree:	1
98 <sup>th</sup> percentile module operating temperature (T <sub>98</sub> ):	70°C
Design load (positive / negative):	3600Pa / 1600Pa
Safety factors:	1.5
Fire safety class:	Class C according to UL790
Isc bifaciality coefficient (ϕ <sub>Isc</sub> ):	80% ± 5%

Module types:	<p><b>Double Glass PV Modules with 182 x 105mm n-type TOPCon Bifacial Mono Solar Cells:</b>            132 cells: JNBN132-xxx (xxx = 585-625, in increment of 5)            120 cells: JNBN120-xxx (xxx = 530-565, in increment of 5)            108 cells: JNBN108-xxx (xxx = 480-510, in increment of 5)            96 cells: JNBN96-xxx (xxx = 425-455, in increment of 5)            Remark: xxx only indicates maximum power output of the front side.</p>
Maximum system voltage:	1500V
Maximum overcurrent protection rating:	35A
Electrical protection class:	Class II
Pollution degree:	1

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98<sup>th</sup> percentile module operating temperature ( $T_{98}$ ): 70°C  
Design load (positive / negative): 3600Pa / 1600Pa  
Safety factors: 1.5  
Fire safety class: Class C according to UL790  
Isc bifaciality coefficient ( $\phi_{Isc}$ ): 80%  $\pm$  5%

Module types: **Double Glass PV Modules with 210 x 105mm n-type TOPCon Bifacial Mono Solar Cells:**  
132 cells: JNBN132-xxx (xxx = 670-730, in increment of 5)  
120 cells: JNBN120-xxx (xxx = 610-660, in increment of 5)  
Remark: xxx only indicates maximum power output of the front side.

Maximum system voltage: 1500V  
Maximum overcurrent protection rating: 35A  
Electrical protection class: Class II  
Pollution degree: 1  
98<sup>th</sup> percentile module operating temperature ( $T_{98}$ ): 70°C  
Design load (positive / negative): 3600Pa / 1600Pa  
Safety factors: 1.5  
Fire safety class: Class C according to UL790  
Isc bifaciality coefficient ( $\phi_{Isc}$ ): 80%  $\pm$  10%

Module types: **Double Glass PV Modules with 210 x 105mm PERC Bifacial Mono Solar Cells:**  
132 cells: JNBM132-xxx (xxx = 650-680, in increment of 5)  
120 cells: JNBM120-xxx (xxx = 590-615, in increment of 5)  
Remark: xxx only indicates maximum power output of the front side.

Maximum system voltage: 1500V  
Maximum overcurrent protection rating: 35A  
Electrical protection class: Class II  
Pollution degree: 1  
98<sup>th</sup> percentile module operating temperature ( $T_{98}$ ): 70°C  
Design load (positive / negative): 3600Pa / 1600Pa  
Safety factors: 1.5  
Fire safety class: Class C according to UL790  
Isc bifaciality coefficient ( $\phi_{Isc}$ ): 75%  $\pm$  5%

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Module types:	<b>Double Glass Monofacial PV Modules with 210 x 105mm n-type TOPCon Bifacial Mono Solar Cells:</b> 56 cells: JNBN56-LW-xxx (xxx = 270-305, in increment of 5) Remark: xxx only indicates maximum power output of the front side.
Maximum system voltage:	1500V
Maximum overcurrent protection rating:	25A
Electrical protection class:	Class II
Pollution degree:	1
98 <sup>th</sup> percentile module operating temperature (T <sub>98</sub> ):	70°C
Design load (positive / negative):	1600Pa / 1600Pa
Safety factors:	1.5
Fire safety class:	Class C according to UL790
Isc bifaciality coefficient (ϕIsc):	N/A

Remark:

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

Isc bifaciality coefficient (ϕIsc) =  $I_{sc\text{rear}}/I_{sc\text{front}}$ , as defined in IEC TS 60904-1-2.

The tolerance of Isc bifaciality coefficient (ϕIsc) is claimed by client.

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