

# CERTIFICATE

**TÜV NORD CERT GmbH**  
herewith declares that

**JINNENG CLEAN ENERGY TECHNOLOGY LTD.**  
No.1 Wenshui Economic Development Zone  
Lvliang, Shanxi, 032100  
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: 2024-05-07

Valid until: 2028-07-22

|                               |   |
|-------------------------------|---|
| Certification program:        | P12-VA-01 Rev. 17 09.20   |
| Certification fundamental(s): | IEC / EN 61215-1:2016;<br>IEC / EN 61215-1-1:2016;<br>IEC 61215-2:2016 / EN 61215-2:2017 + AC:2017 + AC:2018;<br>IEC 61730-1:2016 / EN IEC 61730-1:2018 + AC:2018;<br>IEC 61730-2:2016 / EN IEC 61730-2:2018 + AC:2018. |
| Registered No.:               | 44 780 20 406749 - 011R9M12   |
| Manufacturer:                 | see Annex 1   |
| Test Report No.:              | 492011072.017   |
| File No.:                     | PVP07125/23P-01   |



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Consumer Products

Essen, 2024-05-07

Please also pay attention to the information stated overleaf.

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

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

Factory inspection report no.: 862010249.010

Factory 2: **Jinneng Photovoltaic Technology Ltd.**  
No. 533 East Guo'an Street Green-car Park Jinzhong Development

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Park, Demonstrative Zone of Shanxi Comprehensive Reform,  
Jinzhong City, Shanxi Province, 030600, P.R. China



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Description of product(s):

Aktenzeichen: / File reference: PVP07125/23P-01

2024-05-07

|                                    |  |
|------------------------------------|--|
| Module types:                      | <b>Double Glass PV Modules with 6" Mono Heterojunction Bifacial Solar Cells:</b><br>72 cells: JNHM72-xxx (xxx = 330-390, in increment of 5)<br>60 cells: JNHM60-xxx (xxx = 275-325, in increment of 5)<br>Remark: xxx only indicates maximum power output of the front side. |
| 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  |



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|                                    |   |
|------------------------------------|---|
| Module types:                      | <b>Double Glass PV Modules with 6" Mono Bifacial Solar Cells:</b><br>72 cells: JNBM72-xxx (xxx = 360-390, in increment of 5)<br>60 cells: JNBM60-xxx (xxx = 300-325, in increment of 5)<br>Remark: xxx only indicates maximum power output of the front side. |
| 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)  |



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|                                    |  |
|------------------------------------|--|
| Module types:                      | <b>Double Glass PV Modules with 7" Half-cut Mono Bifacial Solar Cells:</b><br>156 cells: JNBM156-xxx (xxx = 565-605, in increment of 5)<br>144 cells: JNBM144-xxx (xxx = 520-560, in increment of 5)<br>132 cells: JNBM132-xxx (xxx = 475-510, in increment of 5)<br>120 cells: JNBM120-xxx (xxx = 435-465, in increment of 5)<br>108 cells: JNBM108-xxx (xxx = 390-420, in increment of 5)<br>96 cells: JNBM96-xxx (xxx = 345-370, in increment of 5)<br>Remark: xxx only indicates maximum power output of the front side. |
| 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)   |

|               |  |
|---------------|--|
| Module types: | <b>Double Glass PV Modules with 8" Half-cut Mono Bifacial Solar Cells:</b><br>132 cells: JNBM132-xxx (xxx = 630-670, in increment of 5)<br>120 cells: JNBM120-xxx (xxx = 575-610, in increment of 5)<br>Remark: xxx only indicates maximum power output of the front side. |
|---------------|--|



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Aktenzeichen: / File reference: PVP07125/23P-01

2024-05-07

Module types: **Double Glass PV Modules with 6" Mono-crystalline Silicon Solar Cells:**  
72 cells: JNGM72-xxx (xxx = 340-380, in increment of 5)  
60 cells: JNGM60-xxx (xxx = 285-315, in increment of 5)  
48 cells: JNGM48-xxx (xxx = 225-250, in increment of 5)  
Remark: xxx only indicates maximum power output of the front side.

Maximum system voltage: 1500V  
Fuse rating: 15A  
Electrical protection class: Class II  
Pollution degree: 1  
Material group: I  
Design load (positive / negative): 3600Pa / 1600Pa (without frame)  
3600Pa / 2400Pa (with frame)

Safety front glass

Fire safety class: Class C according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018)

Module types: **Double Glass PV Modules with 6" Poly-crystalline Silicon Solar Cells:**

72 cells: JNGP72-xxx (xxx = 340-380, in increment of 5)

|                                    |  |
|------------------------------------|--|
| Module types:                      | Double Glass PV Modules with 8" Half-cut TOPCon Mono Bifacial Solar Cells:<br>132 cells: JNB132-xxx (xxx = 670-710, in increment of 5)<br>120 cells: JNB120-xxx (xxx = 610-645, in increment of 5)<br>Remark: xxx only indicates maximum power output of the front side. |
| Maximum system voltage:            | 1500V  |
| Fuse rating:                       | 35A  |
| 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).



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