

# 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; IEC / EN 61215-1-1:2016; IEC 61215-2:2016 / EN 61215-2:2017 + AC:2017 + AC:2018; IEC 61730-1:2016 / EN IEC 61730-1:2018 + AC:2018; 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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Certification Body  
Consumer Products

Essen, 2024-05-07

Please also pay attention to the information stated overleaf.



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



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> 72 cells: JNHM72-xxx (xxx = 330-390, in increment of 5) 60 cells: JNHM60-xxx (xxx = 275-325, 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
Safety factors:	1.5



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Module types:	<b>Double Glass PV Modules with 6" Mono Bifacial Solar Cells:</b> 72 cells: JNBM72-xxx (xxx = 360-390, in increment of 5) 60 cells: JNBM60-xxx (xxx = 300-325, 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
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 6" Half-cut Mono Bifacial Solar Cells:</b> 144 cells: JNBM144-xxx (xxx = 365-465, in increment of 5) 120 cells: JNBM120-xxx (xxx = 305-385, in increment of 5) Remark: xxx only indicates maximum power output of the front side.
Maximum system voltage:	1500V
Fuse rating:	20A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I
Design load (positive / negative):	1600Pa / 1600Pa (without frame) 3600Pa / 1600Pa (with frame)
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> 156 cells: JNBM156-xxx (xxx = 565-605, in increment of 5) 144 cells: JNBM144-xxx (xxx = 520-560, in increment of 5) 132 cells: JNBM132-xxx (xxx = 475-510, in increment of 5) 120 cells: JNBM120-xxx (xxx = 435-465, in increment of 5) 108 cells: JNBM108-xxx (xxx = 390-420, in increment of 5) 96 cells: JNBM96-xxx (xxx = 345-370, in increment of 5) 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> 132 cells: JNBM132-xxx (xxx = 630-670, in increment of 5) 120 cells: JNBM120-xxx (xxx = 575-610, in increment of 5) Remark: xxx only indicates maximum power output of the front side.
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Am 2023.03.27 wurde Zertifikat-Nr. L...  
[Redacted content]

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

2024-05-07

Module types: **Double Glass PV Modules with 7" Half-cut Mono Bifacial Solar Cells:**  
156 cells: JNBN156-xxx (xxx = 565-635, in increment of 5)  
144 cells: JNBN144-xxx (xxx = 520-610, in increment of 5)  
132 cells: JNBN132-xxx (xxx = 480-560, in increment of 5)  
120 cells: JNBN120-xxx (xxx = 435-505, in increment of 5)  
108 cells: JNBN108-xxx (xxx = 390-455, in increment of 5)  
96 cells: JNBN96-xxx (xxx = 350-405, in increment of 5)  
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: 1



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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 features:

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:**

132 cells: JNBN132-xxx (xxx = 670-710, in increment of 5)

120 cells: JNBN120-xxx (xxx = 610-645, in increment of 5)

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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