

# 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):**

**PV Modules with 6" Mono Heterojunction Bifacial Solar Cells**

**PV Modules with 6" Mono-crystalline Silicon Solar Cells**

Tested according to: IEC 61215-1:2016;  
IEC 61215-1-1:2016;  
IEC 61215-2:2016;  
IEC 61730-1:2016;  
IEC 61730-2:2016.

Registered No.: 44 780 18 406749 - 226  
Manufacturer: see Annex 1  
Test Report No.: 492011072.001  
File No.: SHV01007/18-01



Valid from: 2018-07-23  
Valid until: 2023-07-22



Essen, 2018-07-23

TÜV NORD CERT GmbH  
Certification Body  
Consumer Products

Please also pay attention to the information stated overleaf.

**Manufacturer:**

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

Factory inspection report no.: 862010249.004

Manufacturer 2: **Jinneng Photovoltaic Technology Ltd.**  
No. 533, East Guang'an Street, Green-car Park, Jinzhong Development  
Park, Demonstrative Zone of Shanxi Comprehensive Reform  
Jinzhong City, Shanxi Province, 030600, P.R. China

Factory inspection report no.: 862010378.001

**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:	<b>PV Modules with 6" Mono Heterojunction Bifacial Solar Cells:</b> 72 cells: JNHM72-xxx (xxx = 330-370, in increment of 5) 60 cells: JNHM60-xxx (xxx = 275-310, 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:	3600 Pa / 1600 Pa (Positive / Negative)
Safety factors:	1.5
Fire safety class:	Class C

Module types:	<b>PV Modules with 6" Mono-crystalline Silicon Solar Cells:</b> 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)
Maximum system voltage:	1500V
Fuse rating:	15A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I
Design load:	3600 Pa / 1600 Pa (Positive / Negative)
Safety factors:	1.5
Fire safety class:	Class C

Remark:

For detailed product information, please refer to CDF (Constructional Data Form) in Annex 1 of test report.



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