

# CERTIFICATE

**TÜV NORD CERT GmbH**  
herewith declares that

**Jinko Solar Co., Ltd.**  
No.1, Jinko Road, Shangrao Economic Development Zone  
Shangrao City, Jiangxi Province, 334100  
P.R. 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: 2021-10-15  
Valid until: 2026-09-28

|                               |  |
|-------------------------------|--|
| Certification program:        | P12-VA-01 Rev. 17 09.20  |
| Certification fundamental(s): | P12.4-AA-02 Rev. 00<br>(IEC TS 62804-1:2015 modified)                          |
| Remark:                       | Test temperature: 85°C;<br>Relative humidity: 85%;<br>Test duration: 96 hours. |
| Registered No.:               | 44 780 20 406749 - 024R7A7M8   |
| Manufacturer:                 | see Annex 1  |
| Test Report No.:              | 492011192.012  |
| File No.:                     | PVP07013/21P-03  |



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Essen, 2021-10-15

Please also pay attention to the information stated overleaf.

**Manufacturer:**

|                                |  |
|--------------------------------|--|
| Manufacturer 1:                | <b>Jinko Solar Co., Ltd.</b><br>No.1, Jinko Road, Shangrao Economic Development Zone<br>Shangrao City, Jiangxi Province, 334100, P.R. China            |
| Factory inspection report no.: | 862010818.009  |
| Manufacturer 2:                | <b>Zhejiang Jinko Solar Co., Ltd.</b><br>Yuan Xi Road, Technical Functional Zone, Yuan Hua Town<br>Haining City, Zhejiang Province, 314416, P.R. China |
| Factory inspection report no.: | 862010206.008  |
| Manufacturer 3:                | <b>Jinko Solar Technology Sdn Bhd.</b><br>2481, Tingkat Perusahaan 4A, Kawasan Perusahaan Bebas Perai<br>13600, Perai, Penang, Malaysia                |
| Factory inspection report no.: | 862010278.006  |
| Manufacturer 4:                | <b>Zhejiang Jinko Solar Co., Ltd.</b><br>No.35 Haishi Road, Jianshan New District<br>Haining City, Zhejiang Province. 314415, P.R. China               |
| Factory inspection report no.: | 862010305.005  |
| Manufacturer 5:                | <b>Jinko Solar Technology Sdn Bhd. (P2)</b><br>2522, Lorong Perusahaan 4, Kawasan Perusahaan Bebas Perai, Phase 1,<br>13600, Perai, Penang             |
| Factory inspection report no.: | 862010306.005  |
| Manufacturer 6:                | <b>Jinko Solar Technology Sdn Bhd. (P3)</b><br>Lot 10085, Plot C & D, Jalan Perusahaan, Mukim 1, Seberang Perai<br>Tengah, 13600 Perai, Penang         |
| Factory inspection report no.: | 862010307.005  |
| Manufacturer 7:                | <b>Vina Solar Technology Co., Ltd.</b><br>E12 factory, lot CN-03, Van Trung Industrial park<br>21000 Bac Giang Province, Vietnam                       |
| Factory inspection report no.: | 862010318.004  |



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Manufacturer 8: **Yuhuan Jinko solar Co., Ltd.**  
At the Intersection of Shanghai Road and Taizhou Road in the Third Issue  
of Yuhuan Economic Development Zone  
Taizhou City, Zhejiang Province, 317600, P. R. China

Factory inspection report no.: 862010340.005

Manufacturer 9: **Jinko Solar Co., Ltd. (fifth factory)**  
NO.1 YingBin Road, Shangrao Economic Development Zone  
Jiangxi Province, 334100, P. R. China

Factory inspection report no.: 862010380.004

Manufacturer 10: **Jinko Solar Technology Sdn. Bhd. (P5)**  
Plot 538 Tingkat Perusahaan 4B, Perai Free Trade Zone  
13600 Perai, Penang, Malaysia

Factory inspection report no.: 862010416.003

Manufacturer 11: **Jinko Solar Technology Sdn Bhd. (P6)**  
2480 Tingkat Perusahaan, Enam Perai Free Trade Zone  
13600 Perai, Penang, Malaysia

Factory inspection report no.: 862010417.003

Manufacturer 12: **HTSOLAR VIETNAM LIMITED COMPANY**  
Factory F3-1 and F3-2, Lot F3, Trang Due Industrial park, a part of Dinh  
Vu-Cat Hai economic zone, Hong phong commune, An Duong District,  
Haiphong city, Vietnam

Factory inspection report no.: 862010420.003

Manufacturer 13: **Jinko Solar (U.S.) Industries Inc.**  
4660 Pow-Mia Memorial Parkway, Suite 200  
Jacksonville, FL, 32221, USA

Factory inspection report no.: 862010440.002

Manufacturer 14: **Jinko Solar Technology (Haining) Co., Ltd.**  
No. 89, Lianhong Road, Yuanhua Town, Haining City,  
Jiaxing City, Zhejiang, P.R. China

Factory inspection report no.: 862010467.002

Manufacturer 15: **Jinko Solar (Yiwu) Co., Ltd.**  
1555# Chengxin Road, Niansanli street  
Yiwu city, Zhejiang Province, P.R. China  
Factory inspection report no.: 862010488.002

Manufacturer 16: **Jinko Solar (Chuzhou) Co., Ltd.**  
No. 18 Liming Road, Lai'an Economic Development Zone  
Chuzhou City, Anhui Province, P.R. China  
Factory inspection report no.: 862010491.002

Manufacturer 17: **Jinko Solar (Shangrao) Co., Ltd.**  
No.1, Yingbin Road, Economic Development Zone, Shangrao City,  
Jiangxi Province, 334100, P.R. China  
Factory inspection report no.: 862010534.001

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: **Double Glass PV Modules with 6" Poly-crystalline Silicon Solar Cells:**  
72 cells: JKMxxxPP-72-DV(xxx=250-350, with increments of 5W)  
72 cells: JKMSxxxPP-72-DV(xxx=250-350, with increments of 5W)  
72 cells: JKMxxxPP-72-DV-J(xxx=250-350, with increments of 5W)  
72 cells: JKMSxxxPP-72-DV-J(xxx=250-350, with increments of 5W)  
72 cells: JKMxxxPP-72-DV-F(xxx=250-350, with increments of 5W)  
72 cells: JKMxxxPP-72-J4DV(xxx=250-350, with increments of 5W)  
60 cells: JKMxxxPP-60-DV(xxx=210-290, with increments of 5W)  
60 cells: JKMSxxxPP-60-DV(xxx=210-290, with increments of 5W)  
60 cells: JKMxxxPP-60-DV-J(xxx=210-290, with increments of 5W)  
60 cells: JKMSxxxPP-60-DV-J(xxx=210-290, with increments of 5W)  
60 cells: JKMxxxPP-60-DV-F(xxx=210-290, with increments of 5W)  
60 cells: JKMxxxPP-60-J4DV(xxx=210-290, with increments of 5W)

Maximum system voltage: 1500V  
Fuse rating: 15A or 20A or 25A  
Application class: Class A  
Electrical protection class: Class II

Module types: **Double Glass PV Modules with 6" Poly-crystalline Silicon Half-cut Solar Cells:**  
144 half-cut cells: JKMxxxPP-72H-DV(xxx=250-350, with increments of 5W)  
144 half-cut cells: JKMxxxPP-72H-J4DV(xxx=250-350, with increments of 5W)  
120 half-cut cells: JKMxxxPP-60H-DV(xxx=210-290, with increments of 5W)  
120 half-cut cells: JKMxxxPP-60H-J4DV(xxx=210-290, with increments of 5W)

Maximum system voltage: 1500V  
Fuse rating: 15A or 20A or 25A  
Application class: Class A  
Electrical protection class: Class II

Module types: **Double Glass PV Modules with 6" Mono-crystalline Silicon Solar Cells:**  
72 cells: JKMxxxM-72-DV(xxx=250-420, with increments of 5W)



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72 cells: JKMxxxM-72-DV-J (xxx=250-420, with increments of 5W)  
72 cells: JKMSxxxM-72-DV(xxx=250-420, with increments of 5W)  
72 cells: JKMSxxxM-72-DV-J(xxx=250-420, with increments of 5W)  
72 cells: JKMSxxxM-72-DV-TI(xxx=250-420, with increments of 5W)  
72 cells: JKMxxxM-72-BDV(xxx=300-420, with increments of 5W)  
72 cells: JKMxxxM-72L-BDV(xxx=375-405, with increments of 5W)  
72 cells: JKMxxxM-72-BDVP(xxx=315-420, with increments of 5W)  
72 cells: JKMxxxM-72L-BDVP(xxx=370-410, with increments of 5W)  
60 cells: JKMxxxM-60-DV(xxx=210-350, with increments of 5W)  
60 cells: JKMxxxM-60-DV-J(xxx=210-350, with increments of 5W)  
60 cells: JKMSxxxM-60-DV(xxx=210-350, with increments of 5W)  
60 cells: JKMSxxxM-60-DV-J(xxx=210-350, with increments of 5W)  
60 cells: JKMSxxxM-60-DV-TI(xxx=210-350, with increments of 5W)  
60 cells: JKMxxxM-60-BDV(xxx=250-350, with increments of 5W)  
60 cells: JKMxxxM-60L-BDV(xxx=310-335, with increments of 5W)  
60 cells: JKMxxxM-60-BDVP(xxx=260-350, with increments of 5W)  
60 cells: JKMxxxM-60L-BDVP(xxx=305-340, with increments of 5W)  
60 cells: MMxxx-60LA-MGV(xxx=210-350, with increments of 5W)  
60 cells: SMMxxx-60LA-MGV-TI(xxx=210-350, with increments of 5W)

Maximum system voltage: 1500V  
Fuse rating: 15A or 20A or 25A  
Application class: Class A  
Electrical protection class: Class II

Module types:

**Double Glass PV Modules with 6" Mono-crystalline Silicon Half-cut Solar Cells:**

156 half-cut cells: JKSN3-DDCA-xxx(xxx=400-440, with increments of 5W)  
156 half-cut cells: JKSM3-DDCA-xxx(xxx=400-450, with increments of 5W)  
156 half-cut cells: JKMxxxM-78H-BDVP(xxx=415-455, with increments of 5W)  
156 half-cut cells: JKMxxxN-78H-BDV(xxx=415-460, with increments of 5W)  
156 half-cut cells: JKMxxxM-7RL3-BDVP(xxx=440-465, with increments of 5W)  
156 half-cut cells: JKMxxxM-7RL3-BDVP-J(xxx=440-465, with increments of 5W)  
156 half-cut cells: JKMxxxN-7RL3-BDV(xxx=440-490, with increments of 5W)



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- 156 half-cut cells: JKMxxxM-78HL3-BDVP(xxx=430-485, with increments of 5W)
- 156 half-cut cells: JKMxxxM-78HL3-MBB-BDVP(xxx=430-485, with increments of 5W)
- 144 half-cut cells: JKMxxxM-72H-BDV(xxx=300-420, with increments of 5W)
- 144 half-cut cells: JKMxxxM-72HL-BDV(xxx=390-410, with increments of 5W)
- 144 half-cut cells: JKMxxxM-72H-BDVP(xxx=375-430, with increments of 5W)
- 144 half-cut cells: JKMxxxM-72HL-BDVP(xxx=375-430, with increments of 5W)
- 144 half-cut cells: JKMxxxM-72H-DV(xxx=250-420, with increments of 5W)
- 144 half-cut cells: JKMxxxM-72H-MBB-BDV(xxx=390-420, with increments of 5W)
- 144 half-cut cells: JKMxxxN-72H-MBB-BDV(xxx=370-445, with increments of 5W)
- 144 half-cut cells: JKMxxxM-72H-MBB-BDVP(xxx=370-440, with increments of 5W)
- 144 half-cut cells: JKMxxxN-72H-MBB-BDV(xxx=390-415, with increments of 5W)
- 144 half-cut cells: JKMxxxM-72HLM-BDVP(xxx=400-460, with increments of 5W)
- 144 half-cut cells: JKMSxxxM-72H-DV-TI(xxx=250-420, with increments of 5W)
- 144 half-cut cells: MMxxx-72HLA-MGV(xxx=250-420, with increments of 5W)
- 144 half-cut cells: SMMxxx-72HLA-MGV-TI(xxx=250-420, with increments of 5W)
- 132 half-cut cells: JKSN3-CDCA-xxx(xxx=340-370, with increments of 5W)
- 132 half-cut cells: JKSM3-CDCA-xxx(xxx=340-380, with increments of 5W)
- 132 half-cut cells: JKMxxxM-66H-BDVP(xxx=350-385, with increments of 5W)
- 132 half-cut cells: JKMxxxN-66H-BDV(xxx=350-385, with increments of 5W)
- 132 half-cut cells: JKMxxxM-6RL3-BDVP(xxx=375-390, with increments of 5W)
- 132 half-cut cells: JKMxxxM-6RL3-BDVP-J (xxx=375-390, with increments of 5W)
- 132 half-cut cells: JKMxxxN-6RL3-BDV(xxx=375-410, with increments of 5W)



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132 half-cut cells: JKMxxxM-66HL3-BDVP(xxx=365-410, with increments of 5W)  
132 half-cut cells: JKMxxxM-66HL3-MBB-BDVP(xxx=365-410, with increments of 5W)  
120 half-cut cells: JKMxxxM-60H-BDV(xxx=250-350, with increments of 5W)  
120 half-cut cells: JKMxxxM-60HL-BDV(xxx=325-340, with increments of 5W)  
120 half-cut cells: JKMxxxM-60H-BDVP(xxx=310-355, with increments of 5W)  
120 half-cut cells: JKMxxxM-60HL-BDVP(xxx=310-355, with increments of 5W)  
120 half-cut cells: JKMxxxM-60H-DV(xxx=210-350, with increments of 5W)  
120 half-cut cells: JKMxxxM-60H-MBB-BDV(xxx=330-350, with increments of 5W)  
120 half-cut cells: JKMxxxN-60H-MBB-BDV(xxx=310-370, with increments of 5W)  
120 half-cut cells: JKMxxxM-60H-MBB-BDVP(xxx=310-365, with increments of 5W)  
120 half-cut cells: JKMxxxM-60HLM-BDVP(xxx=335-380, with increments of 5W)  
120 half-cut cells: JKMSxxxM-60H-DV-TI(xxx=210-350, with increments of 5W)  
120 half-cut cells: MMxxx-60HLA-MGV(xxx=210-350, with increments of 5W)  
120 half-cut cells: SMMxxx-60HLA-MGV-TI(xxx=210-350, with increments of 5W)

Maximum system voltage: 1500V  
Fuse rating: 15A or 20A or 25A  
Application class: Class A  
Electrical protection class: Class II



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Module types:

**Double Glass PV Modules with 7" Mono-crystalline Silicon Half-cut Solar Cells:**

156 half-cut cells: JKMxxxN-7RL4-BDV(xxx=500-605, with increments of 5W)

156 half-cut cells: JKMxxxN-7RL4-BDV-J (xxx=500-595, with increments of 5W)

156 half-cut cells: JKMxxxM-7RL4-BDVP(xxx=490-595, with increments of 5W)

156 half-cut cells: JKMxxxM-7RL4-BDVP-J(xxx=490-595, with increments of 5W)

144 half-cut cells: JKMxxxN-7TL4-BDV(xxx=465-555, with increments of 5W)

144 half-cut cells: J7rKMxxxN-7TL4-BDV-J (xxx=465-555, with increments of 5W)

144 half-cut cells: JKMxxxM-7TL4-BDVP(xxx=460-545, with increments of 5W)

144 half-cut cells: JKMxxxM-7TL4-BDVP-J(xxx=460-545, with increments of 5W)

144 half-cut cells: JKMxxxM-72HL4-BDVP(xxx=460-550, with increments of 5W)

144 half-cut cells: JKMxxxM-72HL4-BDVP-J(xxx=460-550, with increments of 5W)

144 half-cut cells: JKMxxxN-72HL4-BDV(xxx=460-555, with increments of 5W)

144 half-cut cells: JKMxxxN-72HL4-BDV-J (xxx=460-550, with increments of 5W)

132 half-cut cells: JKMxxxM-66HL4-BDVP(xxx=425-500, with increments of 5W)

132 half-cut cells: JKMxxxM-6RL4-BDVP(xxx=425-500, with increments of 5W)

132 half-cut cells: JKMxxxN-66HL4-BDV(xxx=425-510, with increments of 5W)

132 half-cut cells: JKMxxxN-6RL4-BDV(xxx=425-510, with increments of 5W)

120 half-cut cells: JKMxxxM-60HL4-BDVP(xxx=385-455, with increments of 5W)

120 half-cut cells: JKMxxxN-60HL4-BDV(xxx=385-465, with increments of 5W)

120 half-cut cells: JKMxxxM-6TL4-BDVP(xxx=385-455, with increments of 5W)

120 half-cut cells: JKMxxxN-6TL4-BDV(xxx=385-465, with increments of 5W)

108 half-cut cells: JKMxxxM-54HL4-BDVP(xxx=345-450, with increments of 5W)



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108 half-cut cells: JKMxxxN-54HL4-BDV(xxx=345-415, with increments of 5W)

108 half-cut cells: JKMxxxM-5RL4-BDVP(xxx=345-410, with increments of 5W)

108 half-cut cells:JKMxxxN-5RL4-BDV(xxx=350-415, with increments of 5W)

Maximum system voltage: 1500V  
Fuse rating: 25A or 30A  
Application class: Class A  
Electrical protection class: Class II

Remark:

For detailed product information, please refer to CDF (Constructional Data Form) attached to test report 492011192.012.



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