

# CERTIFICATE

**TÜV NORD CERT GmbH**  
herewith declares that

**Shanghai JA Solar Technology Co., Ltd.**  
No. 118, Lane 3111, West Huancheng Road,  
Fengxian District, Shanghai, 201401,  
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: 2023-03-01

Valid until: 2026-09-29

Certification program:	P12-VA-01 Rev. 17.09.20
Certification fundamental(s):	P12.4-AA-04 Rev. 00 (IEC 60068-2-68:1994 modified)
Remark:	Test Method Lc; Dust concentration: $5 \pm 0.5 \text{g/m}^3$ ; Wind velocity: $20 \pm 2 \text{m/s}$ ; Test duration: 4 hours each side.
Registered No.:	44 780 19 406749 - 305R12A7M13
Manufacturer:	see Annex 1
Test Report No.:	492010720.023
File No.:	PVP08030/22P-06



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Essen, 2023-03-01

Please also pay attention to the information stated overleaf.

**Manufacturer:**

Manufacturer 1: **Shanghai JA Solar Technology Co., Ltd.**  
No. 118, Lane 3111, West Huancheng Road, Fengxian District  
Shanghai 201401, P.R. China

Factory inspection report no.: 862010153.010

Manufacturer 2: **Hefei JA Solar Technology Co., Ltd.**  
No. 999, Chang Ning Road, Hi-tech Zone, Hefei  
230088, P.R. China

Factory inspection report no.: 862010241.009

Manufacturer 3: **JA Solar (Xingtai) Co., Ltd.**  
No. 1688, Chang An Road, Xingtai Economic Development Area  
Xingtai City, Hebei Province, 054001, P.R. China

Factory inspection report no.: 862010290.007

Manufacturer 4: **Vina Solar Technology Co., Ltd.**  
E12 factory, lot CN-03, Van Trung Industrial park  
21000 Bac Giang Province, Vietnam

Factory inspection report no.: 862010302.006

Manufacturer 5: **JA Solar New Energy Yangzhou Co., Ltd.**  
No.1, Jianhua Road, Economic Development Zone  
Yangzhou, Jiangsu Province, 225000, P.R. China

Factory inspection report no.: 862010496.003

Manufacturer 6: **Yiwu JA Solar Technology Co., Ltd.**  
No. 165, Tongze Road, Yiting Town, Yiwu City,  
Zhejiang Province, 322000, P.R. China.

Factory inspection report no.: 862010513.003

Manufacturer 7: **JA Solar Viet Nam Company Limited**  
Lot G, Quang Chau Industrial Zone, Quang Chau Commune  
Viet Yen Dist, 236110 Bac Giang Province, VIETNAM.

Factory inspection report no.: 862010560.002



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Manufacturer 8: **JA Solar New Energy Yangzhou Co., Ltd. (Jingshan Park)**  
No.123, Jinshan Road, Economic Development Zone,  
Yangzhou, Jiangsu Province, 225127, P.R. China

Factory inspection report no.: 862010584.002

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:

**PV Modules with Mono-crystalline Silicon Solar Cells (156mm to 158.75mm):**

72 cells: JAM6(K)(DG)-72-xxx/PR/1500V (xxx=330-365, in steps of 5)  
72 cells: JAM6(K)(DG)-72-xxx/4BB/1500V (xxx=320-340, in steps of 5)  
72 cells: JAM72D00-xxx/PR (xxx=340-385, in steps of 5)  
72 cells: JAM72D00-xxx/PR/1500V (xxx=340-385, in steps of 5)  
72 cells: JAM72D00-xxx/SC (xxx=320-340, in steps of 5)  
72 cells: JAM72D00-xxx/BP (xxx=330-385, in steps of 5)  
72 cells: JAM72D00-xxx/BP/1500V (xxx=330-385, in steps of 5)  
72 cells: JAM72D00-xxx/MB (xxx=370-380, in steps of 5)  
72 cells: JAM72D00-xxx/MB/1500V (xxx=370-380, in steps of 5)  
72 cells: JAM72D09-xxx/BP (xxx=360-400, in steps of 5)  
72 cells: JAM72D09-xxx/BP/1500V (xxx=360-400, in steps of 5)  
60 cells: JAM6(DG)-60-xxx/1500V (xxx=250-270, in steps of 5)  
60 cells: JAM6(K)(DG)-60-xxx/4BB/1500V (xxx=260-285, in steps of 5)  
60 cells: JAM6(K)(DG)-60-xxx/PR/1500V (xxx=270-305, in steps of 5)  
60 cells: JAM6(DG)-60-xxx/4BB/1500V (xxx=260-280, in steps of 5)  
60 cells: JAM60D00-xxx/PR (xxx=285-320, in steps of 5)  
60 cells: JAM60D00-xxx/PR/1500V (xxx=285-320, in steps of 5)  
60 cells: JAM60D00-xxx/SC (xxx=260-285, in steps of 5)  
60 cells: JAM60D00-xxx/BP (xxx=275-320, in steps of 5)  
60 cells: JAM60D00-xxx/BP/1500V (xxx=275-320, in steps of 5)  
60 cells: JAM60D00-xxx/MB (xxx=310-315, in steps of 5)  
60 cells: JAM60D00-xxx/MB/1500V (xxx=310-315, in steps of 5)  
60 cells: JAM60D09-xxx/BP (xxx=300-340, in steps of 5)  
60 cells: JAM60D09-xxx/BP/1500V (xxx=300-340, in steps of 5)

Maximum system voltage:

1500V

Fuse rating:

20A

Application class:

Class A

Electrical protection class:

Class II

Module types:

**PV Modules with Mono-crystalline Silicon half-cut Solar Cells (156mm to 158.75mm):**

72 cells: JAM72D10-xxx/MB (xxx=385-430, in steps of 5)  
72 cells: JAM72D10-xxx/MB/1500V (xxx=385-430, in steps of 5)  
60 cells: JAM60D10-xxx/MB (xxx=320-355, in steps of 5)  
60 cells: JAM60D10-xxx/MB/1500V (xxx=320-355, in steps of 5)  
72 cells: JAM72D10-xxx/BP (xxx=385-415, in steps of 5)



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72 cells: JAM72D10-xxx/BP/1500V (xxx=385-415, in steps of 5)  
60 cells: JAM60D10-xxx/BP (xxx=320-345, in steps of 5)  
60 cells: JAM60D10-xxx/BP/1500V (xxx=320-345, in steps of 5)  
78 cells: JAM78D10-xxx/MB (xxx=435-455, in steps of 5)  
78 cells: JAM78D10-xxx/MB/1500V (xxx=435-455, in steps of 5)  
66 cells: JAM66D10-xxx/MB (xxx=360-380, in steps of 5)  
66 cells: JAM66D10-xxx/MB/1500V (xxx=360-380, in steps of 5)  
72 cells: JAM72D20-xxx/MB (xxx=430-465, in steps of 5)  
72 cells: JAM72D20-xxx/MB/1500V (xxx=430-465, in steps of 5)  
60 cells: JAM60D20-xxx/MB (xxx=355-385, in steps of 5)  
60 cells: JAM60D20-xxx/MB/1500V (xxx=355-385, in steps of 5)  
72 cells: JAM72D10-xxx/TB (xxx=400-420, in steps of 5)  
72 cells: JAM72D10-xxx/TB/1500V (xxx=400-420, in steps of 5)  
60 cells: JAM60D10-xxx/TB (xxx=335-350, in steps of 5)  
60 cells: JAM60D10-xxx/TB/1500V (xxx=335-350, in steps of 5)

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

Module types:

**PV Modules with 182mm Mono-crystalline Silicon half-cut Solar Cells:**

78 cells: JAM78D30-xxx/MB (xxx=580-605, in steps of 5)  
78 cells: JAM78D30-xxx/MB/1500V (xxx=580-605, in steps of 5)  
72 cells: JAM72D30-xxx/MB (xxx=505-555, in steps of 5)  
72 cells: JAM72D30-xxx/MB/1500V (xxx=505-555, in steps of 5)  
72 cells: JAM72D30-xxx/MB/F (xxx=505-555, in steps of 5)  
72 cells: JAM72D30-xxx/MB/F/1500V (xxx=505-555, in steps of 5)  
66 cells: JAM66D30-xxx/MB (xxx=465-505, in steps of 5)  
66 cells: JAM66D30-xxx/MB/1500V (xxx=465-505, in steps of 5)  
66 cells: JAM66D30-xxx/MB/F (xxx=465-505, in steps of 5)  
66 cells: JAM66D30-xxx/MB/F/1500V (xxx=465-505, in steps of 5)  
60 cells: JAM60D30-xxx/MB (xxx=435-460, in steps of 5)  
60 cells: JAM60D30-xxx/MB/1500V (xxx=435-460, in steps of 5)  
54 cells: JAM54D30-xxx/MB (xxx=390-415, in steps of 5)  
54 cells: JAM54D30-xxx/MB/1500V (xxx=390-415, in steps of 5)  
54 cells: JAM54D31-xxx/MB (xxx=395-400, in steps of 5)  
54 cells: JAM54D31-xxx/MB/1500V (xxx=395-400, in steps of 5)  
78 cells: JAM78D30-xxx/GB (xxx=585-610, in steps of 5)



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78 cells: JAM78D30-xxx/GB/1500V (xxx=585-610, in steps of 5)  
72 cells: JAM72D30-xxx/GB (xxx=540-560, in steps of 5)  
72 cells: JAM72D30-xxx/GB/1500V (xxx=540-560, in steps of 5)  
66 cells: JAM66D30-xxx/GB (xxx=495-510, in steps of 5)  
66 cells: JAM66D30-xxx/GB/1500V (xxx=495-510, in steps of 5)  
60 cells: JAM60D30-xxx/GB (xxx=450-470, in steps of 5)  
60 cells: JAM60D30-xxx/GB/1500V (xxx=450-470, in steps of 5)  
54 cells: JAM54D30-xxx/GB (xxx=405-420, in steps of 5)  
54 cells: JAM54D30-xxx/GB/1500V (xxx=405-420, in steps of 5)  
54 cells: JAM54D31-xxx/GB (xxx=410-420, in steps of 5)  
54 cells: JAM54D31-xxx/GB/1500V (xxx=410-420, in steps of 5)  
72 cells: JAM72D30-xxx/HB (xxx=530-560, in steps of 5)  
72 cells: JAM72D30-xxx/HB/1500V (xxx=530-560, in steps of 5)  
72 cells: JAM72D30-xxx/TB (xxx=540-580, in steps of 5)  
72 cells: JAM72D30-xxx/TB/1500V (xxx=540-580, in steps of 5)  
78 cells: JAM78D40-xxx/MB (xxx=580-630, in steps of 5)  
78 cells: JAM78D40-xxx/MB/1500V (xxx=580-630, in steps of 5)  
72 cells: JAM72D40-xxx/MB (xxx=540-580, in steps of 5)  
72 cells: JAM72D40-xxx/MB/1500V (xxx=540-580, in steps of 5)  
66 cells: JAM66D40-xxx/MB (xxx=500-530, in steps of 5)  
66 cells: JAM66D40-xxx/MB/1500V (xxx=500-530, in steps of 5)  
60 cells: JAM60D40-xxx/MB (xxx=455-480, in steps of 5)  
60 cells: JAM60D40-xxx/MB/1500V (xxx=455-480, in steps of 5)  
54 cells: JAM54D40-xxx/MB (xxx=405-435, in steps of 5)  
54 cells: JAM54D40-xxx/MB/1500V (xxx=405-435, in steps of 5)  
78 cells: JAM78D40-xxx/GB (xxx=580-635, in steps of 5)  
78 cells: JAM78D40-xxx/GB/1500V (xxx=580-635, in steps of 5)  
72 cells: JAM72D40-xxx/GB (xxx=540-585, in steps of 5)  
72 cells: JAM72D40-xxx/GB/1500V (xxx=540-585, in steps of 5)  
66 cells: JAM66D40-xxx/GB (xxx=500-535, in steps of 5)  
66 cells: JAM66D40-xxx/GB/1500V (xxx=500-535, in steps of 5)  
60 cells: JAM60D40-xxx/GB (xxx=455-485, in steps of 5)  
60 cells: JAM60D40-xxx/GB/1500V (xxx=455-485, in steps of 5)  
54 cells: JAM54D40-xxx/GB (xxx=405-440, in steps of 5)  
54 cells: JAM54D40-xxx/GB/1500V (xxx=405-440, in steps of 5)  
54 cells: JAM54D41-xxx/GB (xxx=415-435, in steps of 5)  
54 cells: JAM54D41-xxx/GB/1500V (xxx=415-435, in steps of 5)

Maximum system voltage:

1500V

Fuse rating:

30A



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Application class: Class A  
Electrical protection class: Class II

Module types: **PV Modules with 210mm Mono-crystalline Silicon 1/3-cut Solar Cells:**

50 cells: JAM50D40-xxx/MB (xxx=485-500, in steps of 5)

50 cells: JAM50D40-xxx/MB/1500V (xxx=485-500, in steps of 5)

Maximum system voltage: 1500V

Fuse rating: 30A

Application class: Class A

Electrical protection class: Class II

Module types: **PV Modules with 210mm Mono-crystalline Silicon 1/2-cut Solar Cells:**

66 cells: JAM66D35-xxx/MB (xxx=650-665, in steps of 5)

66 cells: JAM66D35-xxx/MB/1500V (xxx=650-665, in steps of 5)

60 cells: JAM60D35-xxx/MB (xxx=590-605, in steps of 5)

60 cells: JAM60D35-xxx/MB/1500V (xxx=590-605, in steps of 5)

Maximum system voltage: 1500V

Fuse rating: 30A

Application class: Class A

Electrical protection class: Class II

Module types: **PV Modules with Poly-crystalline Silicon Solar Cells (156mm to 158.75mm):**

72 cells: JAP6(DG)-72-xxx/4BB/1500V (xxx=305-325, in steps of 5)

72 cells: JAP6(DG)-72-xxx/3BB/1500V (xxx=305-315, in steps of 5)

72 cells: JAP6(DG)-72-xxx/4BB/RE/1500V (xxx=310-335, in steps of 5)

72 cells: JAP6(K)(DG)-72-xxx/4BB/1500V (xxx=310-335, in steps of 5)

72 cells: JAP72D00-xxx/SC (xxx=305-345, in steps of 5)

72 cells: JAP72D00-xxx/SC/1500V (xxx=310-340, in steps of 5)

72 cells: JAP72D00-xxx/PR (xxx=330-350, in steps of 5)

72 cells: JAP72D00-xxx/PR/1500V (xxx=330-345, in steps of 5)

72 cells: JAP72D09-xxx/SC (xxx=325-345, in steps of 5)

72 cells: JAP72D09-xxx/SC/1500V (xxx=330-345, in steps of 5)

60 cells: JAP6(DG)-60-xxx/4BB/1500V (xxx=250-275, in steps of 5)

60 cells: JAP6(DG)-60-xxx/3BB/1500V (xxx=245-265, in steps of 5)

60 cells: JAP6(DG)-60-xxx/4BB/RE/1500V (xxx=255-280, in steps of 5)



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60 cells: JAP6(K)(DG)-60-xxx/4BB/1500V (xxx=255-280, in steps of 5)

60 cells: JAP60D00-xxx/SC (xxx=255-290, in steps of 5)

60 cells: JAP60D00-xxx/SC/1500V (xxx=260-285, in steps of 5)

60 cells: JAP60D00-xxx/PR (xxx=275-290, in steps of 5)

60 cells: JAP60D00-xxx/PR/1500V (xxx=275-290, in steps of 5)

60 cells: JAP60D09-xxx/SC (xxx=270-290, in steps of 5)

60 cells: JAP60D09-xxx/SC/1500V (xxx=275-290, in steps of 5)

Maximum system voltage: 1500V

Fuse rating: 20A

Application class: Class A

Electrical protection class: Class II

Remark:

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



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