

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: 2024-02-18
Valid until: 2026-11-11

Certification program:	P12-VA-01 Rev. 17 09.20
Certification fundamental(s):	IEC 61701:2020 / EN IEC 61701:2020
Remark:	Test Method 8 Test duration: 1440 hours
Registered No.:	44 780 21 406749 - 243R2A2M2
Manufacturer and factory(-ies):	See Annex 1
Test Report No.:	492011850.003
File No.:	PVP02031/24P



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Essen, 2024-02-18

Please also pay attention to the information stated overleaf.

Manufacturer and factory(-ies):

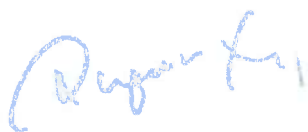
Manufacturer:	Shanghai JA Solar Technology Co., Ltd. No. 118, Lane 3111, West Huancheng Road, Fengxian District Shanghai 201401, P.R. China
Factory 1:	Shanghai JA Solar Technology Co., Ltd. No. 118, Lane 3111, West Huancheng Road, Fengxian District Shanghai 201401, P.R. China
Factory inspection report no.:	862010153.011
Factory 2:	Hefei JA Solar Technology Co., Ltd. No. 999, Chang Ning Road, Hi-tech Zone, Hefei 230088, P.R. China
Factory inspection report no.:	862010241.010
Factory 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.:	862010290.008
Factory 4:	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.:	862010496.004
Factory 5:	Yiwu JA Solar Technology Co., Ltd. No. 165, Tongze Road, Yiting Town, Yiwu City, Zhejiang Province, 322000, P.R. China.
Factory inspection report no.:	862010513.004
Factory 6:	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.:	862010560.003



Factory 7:	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.:	862010584.003
Factory 8:	HSA ENERJI A.S. OSB III. Kisim Kecipiköy OSB Mah., Mustafa Kemal Bulvari No:15/1., 45030 Yunusemre – Manisa, TURKEY
Factory inspection report no.:	862010735.001
Factory 9:	Dongtai JA Solar Technology Co., Ltd. No.8 Zaofeng North Road, Dongtai High-tech Zone, Dongtai City, 224248 Yancheng City, Jiangsu Province, PEOPLE'S REPUBLIC OF CHINA
Factory inspection report no.:	862010802.001
Factory 10:	QuJing JA Solar Technology Co., Ltd. North of Nanhai Avenue and East of Shaoxi Road, Qujing Economic and Technological Development Zone, 655000 Qujing City, Yunnan Province, PEOPLE'S REPUBLIC OF CHINA
Factory inspection report no.:	862010866.001
Factory 11:	Inner Mongolia JA Solar PV Technology Co., Ltd. No.21, Zhuangbei Avenue, Xin Guihua Area, Equipment park, Qingshan District, 014000 Baotou, Inner Mogolia Autonomous Region, PEOPLE'S REPUBLIC OF CHINA
Factory inspection report no.:	862010874.001

Remark:

Factory inspection is mandatory to be performed annually. Please refer to factory inspection report for detailed information.



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
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=505-560, in steps of 5)
72 cells: JAM72D30-xxx/MB/1500V (xxx=505-560, in steps of 5)
72 cells: JAM72D30-xxx/MB/F (xxx=505-560, in steps of 5)
72 cells: JAM72D30-xxx/MB/F/1500V (xxx=505-560, 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)



78 cells: JAM78D30-xxx/GB/1500V (xxx=585-610, in steps of 5)
72 cells: JAM72D30-xxx/GB (xxx=505-560, in steps of 5)
72 cells: JAM72D30-xxx/GB/1500V (xxx=505-560, 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)
78 cells: JAM78D30-xxx/TB (xxx=580-630, in steps of 5)
78 cells: JAM78D30-xxx/TB/1500V (xxx=580-630, 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=580-640, in steps of 5)
78 cells: JAM78D40-xxx/MB/1500V (xxx=580-640, in steps of 5)
72 cells: JAM72D40-xxx/MB (xxx=540-590, in steps of 5)
72 cells: JAM72D40-xxx/MB/1500V (xxx=540-590, in steps of 5)
66 cells: JAM66D40-xxx/MB (xxx=500-535, in steps of 5)
66 cells: JAM66D40-xxx/MB/1500V (xxx=500-535, in steps of 5)
60 cells: JAM60D40-xxx/MB (xxx=455-485, in steps of 5)
60 cells: JAM60D40-xxx/MB/1500V (xxx=455-485, in steps of 5)
54 cells: JAM54D40-xxx/MB (xxx=405-440, in steps of 5)
54 cells: JAM54D40-xxx/MB/1500V (xxx=405-440, in steps of 5)
78 cells: JAM78D40-xxx/GB (xxx=580-640, in steps of 5)
78 cells: JAM78D40-xxx/GB/1500V (xxx=580-640, in steps of 5)
72 cells: JAM72D40-xxx/GB (xxx=540-590, in steps of 5)
72 cells: JAM72D40-xxx/GB/1500V (xxx=540-590, 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)
72 cells: JAM72D30-xxx/LB (xxx=555-575, in steps of 5)



72 cells: JAM72D30-xxx/LB/1500V (xxx=555-575, in steps of 5)
54 cells: JAM54D30-xxx/LB (xxx=420-430, in steps of 5)
54 cells: JAM54D30-xxx/LB/1500V (xxx=420-430, in steps of 5)
66 cells: JAM66D42-xxx/MB (xxx=540-595, in steps of 5)
66 cells: JAM66D42-xxx/MB/1500V (xxx=540-595, in steps of 5)

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

Module types: **PV Modules with 182mm Mono-crystalline Silicon half-cut or Asymmetric cut Solar Cells:**

72 cells: JAM72D40-xxx/LB (xxx=575-600, in steps of 5)
72 cells: JAM72D40-xxx/LB/1500V (xxx=575-600, in steps of 5)
60 cells: JAM60D40-xxx/LB (xxx=485-500, in steps of 5)
60 cells: JAM60D40-xxx/LB/1500V (xxx=485-500, in steps of 5)
54 cells: JAM54D40-xxx/LB (xxx=420-450, in steps of 5)
54 cells: JAM54D40-xxx/LB/1500V (xxx=420-450, in steps of 5)
54 cells: JAM54D40-xxx/LR (xxx=420-450, in steps of 5)
54 cells: JAM54D40-xxx/LR/1500V (xxx=420-450, in steps of 5)
54 cells: JAM54D41-xxx/LB (xxx=420-440, in steps of 5)
54 cells: JAM54D41-xxx/LB/1500V (xxx=420-440, in steps of 5)
72 cells: JAM72D42-xxx/LB (xxx=590-640, in steps of 5)
72 cells: JAM72D42-xxx/LB/1500V (xxx=590-640, in steps of 5)
60 cells: JAM60D42-xxx/LB (xxx=500-525, in steps of 5)
60 cells: JAM60D42-xxx/LB/1500V (xxx=500-525, in steps of 5)
54 cells: JAM54D42-xxx/LB (xxx=455-470, in steps of 5)
54 cells: JAM54D42-xxx/LB/1500V (xxx=455-470, in steps of 5)
78 cells: JAM78D49-xxx/LB (xxx=585-610, in steps of 5)
78 cells: JAM78D49-xxx/LB /1500V (xxx=585-610, in steps of 5)
66 cells: JAM66D45-xxx/LB (xxx=585-620, in steps of 5)
66 cells: JAM66D45-xxx/LB /1500V (xxx=585-620, in steps of 5)
72 cells: JAM72D40-xxx/HB (xxx=585-605, in steps of 5)
72 cells: JAM72D40-xxx/HB /1500V (xxx=585-605, in steps of 5)
54 cells: JAM54D40-xxx/HB (xxx=440-450, in steps of 5)
54 cells: JAM54D40-xxx/HB /1500V (xxx=440-450, in steps of 5)
54 cells: JAM54D41-xxx/HB (xxx=430-445, in steps of 5)
54 cells: JAM54D41-xxx/HB /1500V (xxx=430-445, in steps of 5)

Maximum system voltage: 1500V



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Fuse rating: 25A or 30A
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: 25A
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=310-340, in steps of 5)
72 cells: JAP72D00-xxx/SC/1500V (xxx=310-340, in steps of 5)
72 cells: JAP72D00-xxx/PR (xxx=330-345, in steps of 5)
72 cells: JAP72D00-xxx/PR/1500V (xxx=330-345, in steps of 5)
72 cells: JAP72D09-xxx/SC (xxx=330-345, 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)
60 cells: JAP6(K)(DG)-60-xxx/4BB/1500V (xxx=255-280, in steps of 5)
60 cells: JAP60D00-xxx/SC (xxx=260-285, 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).



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