

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: 2024-01-10

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: $5 \pm 1.5 \text{g/m}^3$; Wind velocity: $20 \pm 2 \text{m/s}$; Test duration: 4 hours each side.
Registered No.:	44 780 23 406749 - 193R4A3M5
Manufacturer:	see Annex 1
Test Report No.:	492012553.006
File No.:	PVP05094/23P-03



TÜV NORD CERT GmbH
Certification Body
Consumer Products



Essen, 2024-01-10

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.: 862010153.011
- 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.: 862010241.010
- 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.: 862010290.008
- Manufacturer 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
- Manufacturer 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
- Manufacturer 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
- Manufacturer 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

Manufacturer 8:	HSA ENERJI A.S. OSB III. Kisim Keciliköy OSB Mah., Mustafa Kemal Bulvari No:15/1., 45030 Yunusemre – Manisa, TURKEY
Factory inspection report no.:	862010735.001
Manufacturer 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
Manufacturer 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
Manufacturer 10:	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.



TÜV NORD CERT GmbH
Certification Body
Consumer Products

Description of product(s):

Module types:

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

- 72 cells: JAM6(L)-72- xxx (xxx=295-335, in steps of 5)
- 72 cells: JAM6-72- xxx/SI (xxx=285-325, in steps of 5)
- 72 cells: JAM6(R)-72-xxx (xxx=295-340, in steps of 5)
- 72 cells: JAM6(R)-72-xxx/PR (xxx=330-350, in steps of 5)
- 72 cells: JAM6-72-xxx/PR (xxx=325-345, in steps of 5)
- 72 cells: JAM6(L)-72-xxx/PR (xxx=325-345, in steps of 5)
- 72 cells: JAM6(K)-72-xxx/4BB (xxx=320-345, in steps of 5)
- 72 cells: JAM6(K)-72-xxx/PR (xxx=325-370, in steps of 5)
- 72 cells: JAM72S02-xxx/PR (xxx=325-390, in steps of 5)
- 72 cells: JAM72S01-xxx/PR/1000V (xxx=345-390, in steps of 5)
- 72 cells: JAM72S01-xxx/SC/1000V (xxx=320-365, in steps of 5)
- 72 cells: JAM72S01-xxx/MR/1000V (xxx=365-385, in steps of 5)
- 72 cells: JAM72S09-xxx/PR/1000V (xxx=370-405, in steps of 5)
- 72 cells: JAM72S09-xxx/BP/1000V (xxx=375-385, in steps of 5)
- 72 cells: JAM72S02-xxx/PR/1000V (xxx=345-390, in steps of 5)
- 72 cells: JAM72S02-xxx/SC/1000V (xxx=320-365, in steps of 5)
- 72 cells: JAM72S02-xxx/MR/1000V (xxx=365-385, in steps of 5)
- 72 cells: JAM72S12-xxx/PR/1000V (xxx=365-385, in steps of 5)
- 60 cells: JAM6(L)-60-xxx (xxx=255-280, in steps of 5)
- 60 cells: JAM6-60-xxx/SI (xxx=235-280, in steps of 5)
- 60 cells: JAM6(FA)-60-xxx/SI (xxx=255-275, in steps of 5)
- 60 cells: JAM6(R)(FA)-60-xxx (xxx=260-280, in steps of 5)
- 60 cells: JAM6(R)-60-xxx (xxx=255-280, in steps of 5)
- 60 cells: JAM6(R)-60-xxx/PR (xxx=280-300, in steps of 5)
- 60 cells: JAM6-60-xxx/PR (xxx=275-295, in steps of 5)
- 60 cells: JAM6(L)-60-xxx/PR (xxx=270-295, in steps of 5)
- 60 cells: JAM6(K)-60-xxx/4BB (xxx=265-285, in steps of 5)
- 60 cells: JAM6(K)-60-xxx/PR (xxx=275-310, in steps of 5)
- 60 cells: JAM60S02-xxx/PR (xxx=280-325, in steps of 5)
- 60 cells: JAM60S01-xxx/PR/1000V (xxx=285-325, in steps of 5)
- 60 cells: JAM60S01-xxx/SC/1000V (xxx=265-305, in steps of 5)
- 60 cells: JAM60S01-xxx/MR/1000V (xxx=305-320, in steps of 5)
- 60 cells: JAM60S09-xxx/PR/1000V (xxx=310-335, in steps of 5)
- 60 cells: JAM60S09-xxx/BP/1000V (xxx=315-320, in steps of 5)
- 60 cells: JAM60S02-xxx/PR/1000V (xxx=285-325, in steps of 5)
- 60 cells: JAM60S02-xxx/SC/1000V (xxx=265-305, in steps of 5)



TÜV NORD CERT GmbH
Certification Body
Consumer Products

60 cells: JAM60S02-xxx/MR/1000V (xxx=305-320, in steps of 5)
60 cells: JAM60S12-xxx/PR/1000V (xxx=305-330, in steps of 5)
48 cells: JAM6(FA)-48-xxx/SI (xxx=205-220, in steps of 5)
48 cells: JAM6(R)(FA)-48-xxx (xxx=210-225, in steps of 5)
48 cells: JAM6(R)-48-xxx/PR (xxx=220-235, in steps of 5)
48 cells: JAM6-48-xxx/PR (xxx=215-235, in steps of 5)
48 cells: JAM6(L)-48-xxx/PR (xxx=215-235, in steps of 5)
48 cells: JAM6(K)-48xxx/4BB (xxx=210-225, in steps of 5)
48 cells: JAM6(K)-48-xxx/PR (xxx=220-235, in steps of 5)

Maximum system voltage: 1000V
Fuse rating: 20A
Application class: Class A
Electrical protection class: Class II

Module types: **PV Modules with 125mm Mono-crystalline Silicon Solar Cells:**

72 cells: JAM5-72-xxx/SI (xxx=180-210, in steps of 5)
72 cells: JAM5(L)-72-xxx/SI (xxx=180-220, in steps of 5)
72 cells: JAM5(R)-72-xxx (xxx=195-220, in steps of 5)

Maximum system voltage: 1000V
Fuse rating: 10A
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: JAM72S03-xxx/PR/1000V (xxx=360-395, in steps of 5)
72 cells: JAM72S10-xxx/PR/1000V (xxx=380-410, in steps of 5)
72 cells: JAM72S10-xxx/BP/1000V (xxx=385-400, in steps of 5)
72 cells: JAM72S10-xxx/MR/1000V (xxx=390-430, in steps of 5)
72 cells: JAM72S10-xxx/MB/1000V (xxx=395-415, in steps of 5)
72 cells: JAM72S08-xxx/PR/1000V (xxx=360-395, in steps of 5)
72 cells: JAM72S17-xxx/PR/1000V (xxx=380-390, in steps of 5)
72 cells: JAM72S17-xxx/MR/1000V (xxx=390-430, in steps of 5)
72 cells: JAM72S17-xxx/GR/1000V (xxx=385-400, in steps of 5)
60 cells: JAM60S03-xxx/PR/1000V (xxx=300-330, in steps of 5)
60 cells: JAM60S10-xxx/PR/1000V (xxx=315-345, in steps of 5)
60 cells: JAM60S10-xxx/BP/1000V (xxx=320-330, in steps of 5)
60 cells: JAM60S10-xxx/MR/1000V (xxx=325-355, in steps of 5)



60 cells: JAM60S10-xxx/MB/1000V (xxx=330-345, in steps of 5)
60 cells: JAM60S08-xxx/PR/1000V (xxx=300-330, in steps of 5)
60 cells: JAM60S17-xxx/PR/1000V (xxx=315-325, in steps of 5)
60 cells: JAM60S17-xxx/MR/1000V (xxx=315-355, in steps of 5)
78 cells: JAM78S10-xxx/MR/1000V (xxx=435-465, in steps of 5)
66 cells: JAM66S10-xxx/MR/1000V (xxx=345-390, in steps of 5)

Maximum system voltage: 1000V
Fuse rating: 20A
Application class: Class A
Electrical protection class: Class II

Module types:

PV Modules with Mono-crystalline Silicon half-cut Solar Cells (166mm to 168mm):

72 cells: JAM72S20-xxx/MR/1000V (xxx=430-470, in steps of 5)
72 cells: JAM72S20-xxx/MB/1000V (xxx=450-465, in steps of 5)
60 cells: JAM60S20-xxx/MR/1000V (xxx=355-390, in steps of 5)
60 cells: JAM60S21-xxx/MR/1000V (xxx=355-390, in steps of 5)
60 cells: JAM60S20-xxx/MB/1000V (xxx=375-390, in steps of 5)

Maximum system voltage: 1000V
Fuse rating: 25A
Application class: Class A
Electrical protection class: Class II

Module types:

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

60 cells: JAM60S30-xxx/MR/1000V (xxx=435-460, in steps of 5)
66 cells: JAM66S30-xxx/MR/1000V (xxx=470-510, in steps of 5)
72 cells: JAM72S30-xxx/MR/1000V (xxx=510-560, in steps of 5)
78 cells: JAM78S30-xxx/MR/1000V (xxx=580-605, in steps of 5)
54 cells: JAM54S30-xxx/MR/1000V (xxx=390-425, in steps of 5)
78 cells: JAM78S30-xxx/GR/1000V (xxx=575-610, in steps of 5)
72 cells: JAM72S30-xxx/GR/1000V (xxx=510-560, in steps of 5)
66 cells: JAM66S30-xxx/GR/1000V (xxx=500-510, in steps of 5)
60 cells: JAM60S30-xxx/GR/1000V (xxx=445-470, in steps of 5)
54 cells: JAM54S30-xxx/GR/1000V (xxx=400-420, in steps of 5)
72 cells: JAM72S31-xxx/MR/1000V (xxx=510-545, in steps of 5)
66 cells: JAM66S31-xxx/MR/1000V (xxx=470-500, in steps of 5)
60 cells: JAM60S31-xxx/MR/1000V (xxx=425-450, in steps of 5)



54 cells: JAM54S31-xxx/MR/1000V (xxx=385-415, in steps of 5)
78 cells: JAM78S31-xxx/GR/1000V (xxx=575-590, in steps of 5)
72 cells: JAM72S31-xxx/GR/1000V (xxx=525-545, in steps of 5)
66 cells: JAM66S31-xxx/GR/1000V (xxx=480-500, in steps of 5)
60 cells: JAM60S31-xxx/GR/1000V (xxx=435-450, in steps of 5)
54 cells: JAM54S31-xxx/GR/1000V (xxx=395-415, in steps of 5)
72 cells: JAM72S40-xxx/GR/1000V (xxx=540-575, in steps of 5)
66 cells: JAM66S40-xxx/GR/1000V (xxx=495-525, in steps of 5)
60 cells: JAM60S40-xxx/GR/1000V (xxx=450-480, in steps of 5)
54 cells: JAM54S40-xxx/GR/1000V (xxx=405-430, in steps of 5)
72 cells: JAM72S41-xxx/GR/1000V (xxx=540-570, in steps of 5)
66 cells: JAM66S41-xxx/GR/1000V (xxx=495-525, in steps of 5)
60 cells: JAM60S41-xxx/GR/1000V (xxx=450-475, in steps of 5)
54 cells: JAM54S41-xxx/GR/1000V (xxx=405-430, in steps of 5)
72 cells: JAM72S30-xxx/LR/1000V (xxx=555-580, in steps of 5)
54 cells: JAM54S30-xxx/LR/1000V (xxx=415-435, in steps of 5)
54 cells: JAM54S31-xxx/LR/1000V (xxx=415-425, in steps of 5)
72 cells: JAM72S30-xxx/MB/1000V (xxx=535-550, in steps of 5)
72 cells: JAM72S31-xxx/MB/1000V (xxx=525-540, in steps of 5)
54 cells: JAM54S30-xxx/MB/1000V (xxx=385-410, in steps of 5)
54 cells: JAM54S31-xxx/MB/1000V (xxx=385-405, in steps of 5)
54 cells: JAM54S30-xxx/LB/1000V (xxx=410-425, in steps of 5)
54 cells: JAM54S31-xxx/LB/1000V (xxx=410-415, in steps of 5)

Maximum system voltage: 1000V
Fuse rating: 25A
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: JAM50S40-xxx/MR/1000V (xxx=490-500, in steps of 5)
66 cells: JAM66S35-xxx/MR/1000V (xxx=650-670, in steps of 5)
60 cells: JAM60S35-xxx/MR/1000V (xxx=590-610, in steps of 5)

Maximum system voltage: 1000V
Fuse rating: 25A
Application class: Class A
Electrical protection class: Class II



Module types: **PV Modules with 182mm Mono-crystalline Silicon 1/5-cut Solar Cells:**
76 cells: JAM76S11-xxx/PR(B)/1000V (xxx=395-415, in steps of 5)

Maximum system voltage: 1000V

Fuse rating: 25A

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: JAP6-72-xxx/3BB (xxx=250-330, in steps of 5)

72 cells: JAP6-72-xxx/4BB (xxx=305-330, in steps of 5)

72 cells: JAP6-72-xxx/RE (xxx=305-330, in steps of 5)

72 cells: JAP6-72-xxx/4BB/RE (xxx=305-330, in steps of 5)

72 cells: JAP6(K)-72-xxx/4BB (xxx=310-330, in steps of 5)

72 cells: JAP72S01-xxx/SC/1000V (xxx=310-345, in steps of 5)

72 cells: JAP72S01-xxx/PR/1000V (xxx=330-345, in steps of 5)

72 cells: JAP72S09-xxx/SC/1000V (xxx=320-345, in steps of 5)

72 cells: JAP72S01-xxx/MS/1000V (xxx=325-340, in steps of 5)

72 cells: JAP72S02-xxx/SC/1000V (xxx=310-345, in steps of 5)

72 cells: JAP72S02-xxx/PR/1000V (xxx=330-345, in steps of 5)

60 cells: JAP6-60-xxx/3BB (xxx=240-275, in steps of 5)

60 cells: JAP6(FA)-60-xxx/3BB (xxx=250-270, in steps of 5)

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

60 cells: JAP6-60-xxx/RE (xxx=255-280, in steps of 5)

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

60 cells: JAP6(K)-60-xxx/4BB (xxx=255-275, in steps of 5)

60 cells: JAP60S01-xxx/SC/1000V (xxx=255-290, in steps of 5)

60 cells: JAP60S01-xxx/PR/1000V (xxx=275-285, in steps of 5)

60 cells: JAP60S09-xxx/SC/1000V (xxx=265-290, in steps of 5)

60 cells: JAP60S01-xxx/MS/1000V (xxx=270-280, in steps of 5)

60 cells: JAP60S02-xxx/SC/1000V (xxx=255-290, in steps of 5)

60 cells: JAP60S02-xxx/PR/1000V (xxx=275-285, in steps of 5)

54 cells: JAP54S01-xxx/SC (xxx=245-255, in steps of 5)

48 cells: JAP6(FA)-48-xxx/3BB (xxx=200-220, in steps of 5)

48 cells: JAP6-48-xxx/3BB (xxx=200-220, in steps of 5)

Maximum system voltage: 1000V

Fuse rating: 20A



TÜV NORD CERT GmbH
Certification Body
Consumer Products

Application class: Class A
Electrical protection class: Class II

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

72 cells: JAP72S03-xxx/SC/1000V (xxx=320-345, in steps of 5)

72 cells: JAP72S03-xxx/PR/1000V (xxx=335-355, in steps of 5)

72 cells: JAP72S10-xxx/SC/1000V (xxx=335-350, in steps of 5)

72 cells: JAP72S03-xxx/MS/1000V (xxx=320-345, in steps of 5)

72 cells: JAP72S08-xxx/SC/1000V (xxx=320-345, in steps of 5)

72 cells: JAP72S08-xxx/PR/1000V (xxx=335-355, in steps of 5)

60 cells: JAP60S03-xxx/SC/1000V (xxx=270-290, in steps of 5)

60 cells: JAP60S03-xxx/PR/1000V (xxx=280-295, in steps of 5)

60 cells: JAP60S10-xxx/SC/1000V (xxx=275-290, in steps of 5)

60 cells: JAP60S03-xxx/MS/1000V (xxx=270-285, in steps of 5)

60 cells: JAP60S08-xxx/SC/1000V (xxx=270-290, in steps of 5)

60 cells: JAP60S08-xxx/PR/1000V (xxx=280-295, in steps of 5)

Maximum system voltage: 1000V

Fuse rating: 20A

Application class: Class A

Electrical protection class: Class II

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

72 cells: JAM6(K)-72-xxx/PR/1500V (xxx=345-370, in steps of 5)

72 cells: JAM6(K)-72-xxx/4BB/1500V (xxx=320-345, in steps of 5)

72 cells: JAM72S01-xxx/PR (xxx=345-390, in steps of 5)

72 cells: JAM72S01-xxx/SC/1500V (xxx=320-365, in steps of 5)

72 cells: JAM72S01-xxx/MR/1500V (xxx=365-385, in steps of 5)

72 cells: JAM72S09-xxx/PR/1500V (xxx=370-405, in steps of 5)

72 cells: JAM72S09-xxx/BP/1500V (xxx=375-385, in steps of 5)

72 cells: JAM72S02-xxx/PR/1500V (xxx=345-390, in steps of 5)

72 cells: JAM72S02-xxx/SC/1500V (xxx=320-365, in steps of 5)

72 cells: JAM72S02-xxx/MR/1500V (xxx=365-385, in steps of 5)

72 cells: JAM72S12-xxx/PR/1500V (xxx=365-385, in steps of 5)

60 cells: JAM6(K)-60-xxx/PR/1500V (xxx=285-310, in steps of 5)

60 cells: JAM6(K)-60-xxx/4BB/1500V (xxx=265-285, in steps of 5)

60 cells: JAM60S01-xxx/PR/1500V (xxx=285-325, in steps of 5)



60 cells: JAM60S01-xxx/SC/1500V (xxx=265-305, in steps of 5)
60 cells: JAM60S01-xxx/MR/1500V (xxx=305-320, in steps of 5)
60 cells: JAM60S09-xxx/PR/1500V (xxx=310-335, in steps of 5)
60 cells: JAM60S09-xxx/BP/1500V (xxx=315-320, in steps of 5)
60 cells: JAM60S02-xxx/PR/1500V (xxx=285-325, in steps of 5)
60 cells: JAM60S02-xxx/SC/1500V (xxx=265-305, in steps of 5)
60 cells: JAM60S02-xxx/MR/1500V (xxx=305-320, in steps of 5)
60 cells: JAM60S12-xxx/PR/1500V (xxx=305-330, in steps of 5)
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



TÜV NORD CERT GmbH
Certification Body
Consumer Products

Module types:

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

72 cells: JAM72S03-xxx/PR/1500V (xxx=360-395, in steps of 5)

72 cells: JAM72S10-xxx/PR/1500V (xxx=380-410, in steps of 5)

72 cells: JAM72S10-xxx/BP/1500V (xxx=385-400, in steps of 5)

72 cells: JAM72S10-xxx/MR/1500V (xxx=390-430, in steps of 5)

72 cells: JAM72S10-xxx/MB/1500V (xxx=395-415, in steps of 5)

72 cells: JAM72S08-xxx/PR/1500V (xxx=360-395, in steps of 5)

72 cells: JAM72S17-xxx/PR/1500V (xxx=380-390, in steps of 5)

72 cells: JAM72S17-xxx/MR/1500V (xxx=390-430, in steps of 5)

72 cells: JAM72S17-xxx/GR/1500V (xxx=385-400, in steps of 5)

60 cells: JAM60S03-xxx/PR/1500V (xxx=300-330, in steps of 5)

60 cells: JAM60S10-xxx/PR/1500V (xxx=315-345, in steps of 5)

60 cells: JAM60S10-xxx/BP/1500V (xxx=320-330, in steps of 5)

60 cells: JAM60S10-xxx/MR/1500V (xxx=325-355, in steps of 5)

60 cells: JAM60S10-xxx/MB/1500V (xxx=330-345, in steps of 5)

60 cells: JAM60S20-xxx/MR/1500V (xxx=355-390, in steps of 5)

60 cells: JAM60S21-xxx/MR/1500V (xxx=355-390, in steps of 5)

60 cells: JAM60S08-xxx/PR/1500V (xxx=300-330, in steps of 5)

60 cells: JAM60S17-xxx/PR/1500V (xxx=315-325, in steps of 5)

60 cells: JAM60S17-xxx/MR/1500V (xxx=315-355, in steps of 5)

78 cells: JAM78S10-xxx/MR/1500V (xxx=435-465, in steps of 5)

66 cells: JAM66S10-xxx/MR/1500V (xxx=345-390, in steps of 5)

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)

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)



TÜV NORD CERT GmbH
Certification Body
Consumer Products

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 Mono-crystalline Silicon half-cut Solar Cells (166mm to 168mm):**

72 cells: JAM72S20-xxx/MR/1500V (xxx=430-470, in steps of 5)
72 cells: JAM72S20-xxx/MB/1500V (xxx=450-465, in steps of 5)
60 cells: JAM60S20-xxx/MB/1500V (xxx=375-390, 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 182mm Mono-crystalline Silicon half-cut Solar Cells:**

78 cells: JAM78S30-xxx/MR/1500V (xxx=580-605, in steps of 5)
72 cells: JAM72S30-xxx/MR/1500V (xxx=510-560, in steps of 5)
66 cells: JAM66S30-xxx/MR/1500V (xxx=470-510, in steps of 5)
60 cells: JAM60S30-xxx/MR/1500V (xxx=435-460, in steps of 5)
54 cells: JAM54S30-xxx/MR/1500V (xxx=390-425, in steps of 5)
78 cells: JAM78S30-xxx/GR/1500V (xxx=575-610, in steps of 5)
72 cells: JAM72S30-xxx/GR/1500V (xxx=510-560, in steps of 5)
66 cells: JAM66S30-xxx/GR/1500V (xxx=500-510, in steps of 5)
60 cells: JAM60S30-xxx/GR/1500V (xxx=445-470, in steps of 5)
54 cells: JAM54S30-xxx/GR/1500V (xxx=400-420, in steps of 5)
72 cells: JAM72S31-xxx/MR/1500V (xxx=510-545, in steps of 5)
66 cells: JAM66S31-xxx/MR/1500V (xxx=470-500, in steps of 5)
60 cells: JAM60S31-xxx/MR/1500V (xxx=425-450, in steps of 5)
54 cells: JAM54S31-xxx/MR/1500V (xxx=385-415, in steps of 5)
78 cells: JAM78S31-xxx/GR/1500V (xxx=575-590, in steps of 5)
72 cells: JAM72S31-xxx/GR/1500V (xxx=525-545, in steps of 5)
66 cells: JAM66S31-xxx/GR/1500V (xxx=480-500, in steps of 5)
60 cells: JAM60S31-xxx/GR/1500V (xxx=435-450, in steps of 5)



54 cells: JAM54S31-xxx/GR/1500V (xxx=395-415, in steps of 5)
72 cells: JAM72S40-xxx/GR/1500V (xxx=540-575, in steps of 5)
66 cells: JAM66S40-xxx/GR/1500V (xxx=495-525, in steps of 5)
60 cells: JAM60S40-xxx/GR/1500V (xxx=450-480, in steps of 5)
54 cells: JAM54S40-xxx/GR/1500V (xxx=405-430, in steps of 5)
72 cells: JAM72S41-xxx/GR/1500V (xxx=540-570, in steps of 5)
66 cells: JAM66S41-xxx/GR/1500V (xxx=495-525, in steps of 5)
60 cells: JAM60S41-xxx/GR/1500V (xxx=450-475, in steps of 5)
54 cells: JAM54S41-xxx/GR/1500V (xxx=405-430, in steps of 5)
72 cells: JAM72S30-xxx/LR/1500V (xxx=555-580, in steps of 5)
54 cells: JAM54S30-xxx/LR/1500V (xxx=415-435, in steps of 5)
54 cells: JAM54S31-xxx/LR/1500V (xxx=415-425, in steps of 5)
72 cells: JAM72S30-xxx/MB/1500V (xxx=535-550, in steps of 5)
72 cells: JAM72S31-xxx/MB/1500V (xxx=525-540, in steps of 5)
54 cells: JAM54S30-xxx/MB/1500V (xxx=385-410, in steps of 5)
54 cells: JAM54S31-xxx/MB/1500V (xxx=385-405, in steps of 5)
54 cells: JAM54S30-xxx/LB/1500V (xxx=410-425, in steps of 5)
54 cells: JAM54S31-xxx/LB/1500V (xxx=410-415, in steps of 5)
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=580-635, in steps of 5)
78 cells: JAM78D40-xxx/MB/1500V (xxx=580-635, 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=580-635, in steps of 5)
78 cells: JAM78D40-xxx/GB/1500V (xxx=580-635, in steps of 5)
72 cells: JAM72D40-xxx/GB (xxx=540-590, 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=560-600, in steps of 5)
72 cells: JAM72D40-xxx/LB/1500V (xxx=560-600, 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: 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=590-635, in steps of 5)
72 cells: JAM72D42-xxx/LB/1500V (xxx=590-635, 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=585-610, in steps of 5)
66 cells: JAM66D45-xxx/LB /1500V (xxx=585-610, 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
Fuse rating: 25A
Application class: Class A
Electrical protection class: Class II



TÜV NORD CERT GmbH
Certification Body
Consumer Products

Module types:	PV Modules with 210mm Mono-crystalline Silicon 1/3-cut Solar Cells: 50 cells: JAM50S40-xxx/MR/1500V (xxx=490-500, in steps of 5) 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: JAM66S35-xxx/MR/1500V (xxx=650-670, in steps of 5) 60 cells: JAM60S35-xxx/MR/1500V (xxx=590-610, in steps of 5) 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:	25A
Application class:	Class A
Electrical protection class:	Class II

Module types:	PV Modules with 182mm Mono-crystalline Silicon 1/5-cut Solar Cells: 76 cells: JAM76S11-xxx/PR(B)/1500V (xxx=395-415, 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 Poly-crystalline Silicon Solar Cells (156mm to 158.75mm): 72 cells: JAP6(K)-72-xxx/4BB/1500V (xxx=310-330, in steps of 5) 72 cells: JAP72S01-xxx/SC/1500V (xxx=310-345, in steps of 5) 72 cells: JAP72S01-xxx/PR/1500V (xxx=330-345, in steps of 5) 72 cells: JAP72S09-xxx/SC/1500V (xxx=320-345, in steps of 5)
---------------	---



72 cells: JAP72S01-xxx/MS/1500V (xxx=325-340, in steps of 5)
72 cells: JAP72S02-xxx/SC/1500V (xxx=310-345, in steps of 5)
72 cells: JAP72S02-xxx/PR/1500V (xxx=330-345, in steps of 5)
60 cells: JAP6(K)-60-xxx/4BB/1500V (xxx=255-275, in steps of 5)
60 cells: JAP60S01-xxx/SC/1500V (xxx=255-290, in steps of 5)
60 cells: JAP60S01-xxx/PR/1500V (xxx=275-285, in steps of 5)
60 cells: JAP60S09-xxx/SC/1500V (xxx=265-290, in steps of 5)
60 cells: JAP60S01-xxx/MS/1500V (xxx=270-280, in steps of 5)
60 cells: JAP60S02-xxx/SC/1500V (xxx=255-290, in steps of 5)
60 cells: JAP60S02-xxx/PR/1500V (xxx=275-285, in steps of 5)
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)
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

Module types: **PV Modules with Poly-crystalline Silicon half-cut Solar Cells (156mm to 158.75mm):**
72 cells: JAP72S03-xxx/SC/1500V (xxx=320-345, in steps of 5)
72 cells: JAP72S03-xxx/PR/1500V (xxx=335-355, in steps of 5)



72 cells: JAP72S10-xxx/SC/1500V (xxx=335-350, in steps of 5)
72 cells: JAP72S03-xxx/MS/1500V (xxx=320-345, in steps of 5)
72 cells: JAP72S08-xxx/SC/1500V (xxx=320-345, in steps of 5)
72 cells: JAP72S08-xxx/PR/1500V (xxx=335-355, in steps of 5)
60 cells: JAP60S03-xxx/SC/1500V (xxx=270-290, in steps of 5)
60 cells: JAP60S03-xxx/PR/1500V (xxx=280-295, in steps of 5)
60 cells: JAP60S10-xxx/SC/1500V (xxx=275-290, in steps of 5)
60 cells: JAP60S03-xxx/MS/1500V (xxx=270-285, in steps of 5)
60 cells: JAP60S08-xxx/SC/1500V (xxx=270-290, in steps of 5)
60 cells: JAP60S08-xxx/PR/1500V (xxx=280-295, 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 Solar Cells (156mm to 158.75mm):**

72 cells: JAM72S01-xxx/SC (xxx=320-365, in steps of 5)
72 cells: JAM72S02-xxx/SC (xxx=320-365, in steps of 5)
72 cells: JAM72S02-xxx/PR (xxx=345-390, in steps of 5)
72 cells: JAM72S01-xxx/MR (xxx=365-385, in steps of 5)
72 cells: JAM72S02-xxx/MR (xxx=365-385, in steps of 5)
72 cells: JAM72S09-xxx/PR (xxx=370-405, in steps of 5)
72 cells: JAM72S12-xxx/PR (xxx=365-385, in steps of 5)
72 cells: JAM72S09-xxx/BP (xxx=375-385, in steps of 5)
60 cells: JAM60S01-xxx/SC (xxx=265-305, in steps of 5)
60 cells: JAM60S02-xxx/SC (xxx=265-305, in steps of 5)
60 cells: JAM60S01-xxx/PR (xxx=285-325, in steps of 5)
60 cells: JAM60S02-xxx/PR (xxx=285-325, in steps of 5)
60 cells: JAM60S01-xxx/MR (xxx=305-320, in steps of 5)
60 cells: JAM60S02-xxx/MR (xxx=305-320, in steps of 5)
60 cells: JAM60S09-xxx/PR (xxx=310-335, in steps of 5)
60 cells: JAM60S12-xxx/PR (xxx=305-330, in steps of 5)
60 cells: JAM60S09-xxx/BP (xxx=315-320, in steps of 5)

Maximum system voltage: 1000V or 1500V
Fuse rating: 20A
Application class: Class A
Electrical protection class: Class II



TÜV NORD CERT GmbH
Certification Body
Consumer Products

Module types:

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

72 cells: JAM72S03-xxx/PR (xxx=360-395, in steps of 5)
72 cells: JAM72S10-xxx/PR (xxx=380-410, in steps of 5)
72 cells: JAM72S17-xxx/PR (xxx=380-390, in steps of 5)
72 cells: JAM72S10-xxx/MR (xxx=390-430, in steps of 5)
72 cells: JAM72S17-xxx/MR (xxx=390-430, in steps of 5)
72 cells: JAM72S17-xxx/GR (xxx=385-400, in steps of 5)
72 cells: JAM72S10-xxx/BP (xxx=385-400, in steps of 5)
72 cells: JAM72S10-xxx/MB (xxx=395-415, in steps of 5)
72 cells: JAM72S08-xxx/PR (xxx=360-395, in steps of 5)
60 cells: JAM60S03-xxx/PR (xxx=300-330, in steps of 5)
60 cells: JAM60S08-xxx/PR (xxx=300-330, in steps of 5)
60 cells: JAM60S10-xxx/PR (xxx=315-345, in steps of 5)
60 cells: JAM60S10-xxx/MR (xxx=325-355, in steps of 5)
60 cells: JAM60S10-xxx/BP (xxx=320-330, in steps of 5)
60 cells: JAM60S10-xxx/MB (xxx=330-345, in steps of 5)
60 cells: JAM60S17-xxx/PR (xxx=315-325, in steps of 5)
60 cells: JAM60S17-xxx/MR (xxx=315-355, in steps of 5)
78 cells: JAM78S10-xxx/MR (xxx=435-465, in steps of 5)
78 cells: JAM78S10-xxx/MR-J (xxx=435-465, in steps of 5)
66 cells: JAM66S10-xxx/MR (xxx=345-390, in steps of 5)

Maximum system voltage: 1000V or 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 (166mm to 168mm):

72 cells: JAM72S20-xxx/MR (xxx=430-470, in steps of 5)
72 cells: JAM72S20-xxx/MB (xxx=450-465, in steps of 5)
60 cells: JAM60S20-xxx/MR (xxx=355-390, in steps of 5)
60 cells: JAM60S21-xxx/MR (xxx=355-390, in steps of 5)
60 cells: JAM60S20-xxx/MB (xxx=375-390, in steps of 5)

Maximum system voltage: 1000V or 1500V

Fuse rating: 20A

Application class: Class A



TÜV NORD CERT GmbH
Certification Body
Consumer Products

Electrical protection class: Class II

Module types:

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

78 cells: JAM78S30-xxx/MR (xxx=580-605, in steps of 5)

72 cells: JAM72S30-xxx/MR (xxx=510-560, in steps of 5)

66 cells: JAM66S30-xxx/MR (xxx=470-510, in steps of 5)

60 cells: JAM60S30-xxx/MR (xxx=435-460, in steps of 5)

54 cells: JAM54S30-xxx/MR (xxx=390-425, in steps of 5)

78 cells: JAM78S30-xxx/GR (xxx=575-610, in steps of 5)

72 cells: JAM72S30-xxx/GR (xxx=510-560, in steps of 5)

66 cells: JAM66S30-xxx/GR (xxx=500-510, in steps of 5)

60 cells: JAM60S30-xxx/GR (xxx=445-470, in steps of 5)

54 cells: JAM54S30-xxx/GR (xxx=400-420, in steps of 5)

72 cells: JAM72S31-xxx/MR (xxx=510-545, in steps of 5)

66 cells: JAM66S31-xxx/MR (xxx=470-500, in steps of 5)

60 cells: JAM60S31-xxx/MR (xxx=425-450, in steps of 5)

54 cells: JAM54S31-xxx/MR (xxx=385-415, in steps of 5)

78 cells: JAM78S31-xxx/GR (xxx=575-590, in steps of 5)

72 cells: JAM72S31-xxx/GR (xxx=525-545, in steps of 5)

66 cells: JAM66S31-xxx/GR (xxx=480-500, in steps of 5)

60 cells: JAM60S31-xxx/GR (xxx=435-450, in steps of 5)

54 cells: JAM54S31-xxx/GR (xxx=395-415, in steps of 5)

72 cells: JAM72S40-xxx/GR (xxx=540-575, in steps of 5)

66 cells: JAM66S40-xxx/GR (xxx=495-525, in steps of 5)

60 cells: JAM60S40-xxx/GR (xxx=450-480, in steps of 5)

54 cells: JAM54S40-xxx/GR (xxx=405-430, in steps of 5)

72 cells: JAM72S41-xxx/GR (xxx=540-570, in steps of 5)

66 cells: JAM66S41-xxx/GR (xxx=495-525, in steps of 5)

60 cells: JAM60S41-xxx/GR (xxx=450-475, in steps of 5)

54 cells: JAM54S41-xxx/GR (xxx=405-430, in steps of 5)

72 cells: JAM72S30-xxx/LR (xxx=555-580, in steps of 5)

54 cells: JAM54S30-xxx/LR (xxx=415-435, in steps of 5)

54 cells: JAM54S31-xxx/LR (xxx=415-425, in steps of 5)

72 cells: JAM72S30-xxx/MB (xxx=535-550, in steps of 5)

72 cells: JAM72S31-xxx/MB (xxx=525-540, in steps of 5)

54 cells: JAM54S30-xxx/MB (xxx=385-410, in steps of 5)

54 cells: JAM54S31-xxx/MB (xxx=385-405, in steps of 5)

54 cells: JAM54S30-xxx/LB (xxx=410-425, in steps of 5)

54 cells: JAM54S31-xxx/LB (xxx=410-415, in steps of 5)



TÜV NORD CERT GmbH
Certification Body
Consumer Products

Maximum system voltage: 1000V or 1500V
Fuse rating: 25A
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: JAM50S40-xxx/MR (xxx=490-500, in steps of 5)
66 cells: JAM66S35-xxx/MR (xxx=650-670, in steps of 5)
60 cells: JAM60S35-xxx/MR (xxx=590-610, in steps of 5)

Maximum system voltage: 1000V or 1500V
Fuse rating: 25A
Application class: Class A
Electrical protection class: Class II

Module types: **PV Modules with 182mm Mono-crystalline Silicon 1/5-cut Solar Cells:**

68 cells: JAM68S11-xxx/PR (xxx=355-365, in steps of 5)
68 cells: JAM68S11-xxx/PR(B) (xxx=345-365, in steps of 5)
76 cells: JAM76S11-xxx/PR(B) (xxx=395-415, in steps of 5)

Maximum system voltage: 1000V or 1500V
Fuse rating: 25A
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: JAP72S01-xxx/SC (xxx=310-345, in steps of 5)
72 cells: JAP72S02-xxx/SC (xxx=310-345, in steps of 5)
72 cells: JAP72S01-xxx/PR (xxx=330-345, in steps of 5)
72 cells: JAP72S02-xxx/PR (xxx=330-345, in steps of 5)
72 cells: JAP72S09-xxx/SC (xxx=320-345, in steps of 5)
72 cells: JAP72S01-xxx/MS (xxx=325-340, in steps of 5)
60 cells: JAP60S01-xxx/SC (xxx=255-290, in steps of 5)
60 cells: JAP60S02-xxx/SC (xxx=255-290, in steps of 5)
60 cells: JAP60S01-xxx/PR (xxx=275-285, in steps of 5)
60 cells: JAP60S02-xxx/PR (xxx=275-285, in steps of 5)



	60 cells: JAP60S09-xxx/SC (xxx=265-290, in steps of 5)
	60 cells: JAP60S01-xxx/MS (xxx=270-280, in steps of 5)
	54 cells: JAP54S01-xxx/SC (xxx=245-255, in steps of 5)
Maximum system voltage:	1000V or 1500V
Fuse rating:	20A
Application class:	Class A
Electrical protection class:	Class II
Module types:	PV Modules with Poly-crystalline Silicon half-cut Solar Cells (156mm to 158.75mm):
	72 cells: JAP72S03-xxx/PR (xxx=335-355, in steps of 5)
	72 cells: JAP72S03-xxx/SC (xxx=320-345, in steps of 5)
	72 cells: JAP72S10-xxx/SC (xxx=335-350, in steps of 5)
	72 cells: JAP72S03-xxx/MS (xxx=320-345, in steps of 5)
	72 cells: JAP72S08-xxx/SC (xxx=320-345, in steps of 5)
	72 cells: JAP72S08-xxx/PR (xxx=335-355, in steps of 5)
	60 cells: JAP60S03-xxx/PR (xxx=280-295, in steps of 5)
	60 cells: JAP60S03-xxx/SC (xxx=270-290, in steps of 5)
	60 cells: JAP60S10-xxx/SC (xxx=275-290, in steps of 5)
	60 cells: JAP60S03-xxx/MS (xxx=270-285, in steps of 5)
	60 cells: JAP60S08-xxx/SC (xxx=270-290, in steps of 5)
	60 cells: JAP60S08-xxx/PR (xxx=280-295, in steps of 5)
Maximum system voltage:	1000V or 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.

