

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:

P12-VA-01 Rev. 17 09.20

(IEC TS 62804-1:2015 modified)

44 780 20 406749 - 120R10A6M13

P12.4-AA-02 Rev. 00

see Annex 1

492011447.014

PVP07013/21P-02

Test temperature: 85°C; Relative humidity: 85%; Test duration: 96 hours.

Description of product (details see Annex 2):

PV Modules with 6" Poly-crystalline Silicon Solar Cells PV Modules with 6" Poly-crystalline Silicon Half-cut Solar Cells PV Modules with 6" Mono-crystalline Silicon Solar Cells PV Modules with 6" Mono-crystalline Silicon Half-cut Solar Cells PV Modules with 7" Mono-crystalline Silicon Half-cut Solar Cells PV Modules with 8" Mono-crystalline Silicon Half-cut Solar Cells

Certification program: Certification fundamental(s):

Remark:

Registered No.: Manufacturer: Test Report No.: File No.:

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TÜV NORD CERT GmbH Certification Body Consumer Products

Please also pay attention to the information stated overleaf.

TÜV NORD CERT GmbH

Langemarckstr. 20 Fon +49 (0)201 825 5120 45141 Essen



Valid from: 2021-10-09 Valid until: 2025-07-08



Essen, 2021-10-09



Anlage 1 zum Zertifikat Nr.: / Annex 1 to Certificate No.: 44 780 20 406749 - 120R10A6M13 Aktenzeichen: / File reference: PVP07013/21P-02

2021-10-09

Manufacturer:

Manufacturer 1:	Jinko Solar Co., Ltd. No.1, Jinko Road, Shangrao Economic Development Zone Shangrao City, Jiangxi Province, 334100, P.R. China
Factory inspection report no.:	862010818.009
Manufacturer 2:	Zhejiang Jinko Solar Co., Ltd. Yuan Xi Road, Technical Functional Zone, Yuan Hua Town Haining City, Zhejiang Province, 314416, P.R. China
Factory inspection report no.:	862010206.008
Manufacturer 3:	Jinko Solar Technology Sdn Bhd. 2481,Tingkat Perusahaan 4A, Kawasan Perusahaan Bebas Perai 13600, Perai, Penang, Malaysia
Factory inspection report no.:	862010278.006
Manufacturer 4:	Zhejiang Jinko Solar Co., Ltd. No.35 Haishi Road, Jianshan New District Haining City, Zhejiang Province. 314415, P.R. China
Factory inspection report no.:	862010305.005
Manufacturer 5:	Jinko Solar Technology Sdn Bhd. (P2) 2522, Lorong Perusahaan 4, Kawasan Perusahaan Bebas Perai, Phase 1, 13600, Perai, Penang
Factory inspection report no.:	862010306.005
Manufacturer 6:	Jinko Solar Technology Sdn Bhd. (P3) Lot 10085, Plot C & D, Jalan Perusahaan, Mukim 1, Seberang Perai Tengah, 13600 Perai, Penang
Factory inspection report no.:	862010307.005
Manufacturer 7:	Vina Solar Technology Co., Ltd. E12 factory, lot CN-03, Van Trung Industrial park 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:	Jiangsu Focus New Energy Technology Co., Ltd.
	No. 66, Lifa Avenue Development Zone, Hai'an County
	Nantong City, Jiangsu Province, 226600, P. R. China
Factory inspection report no.:	862010410.003
Manufacturer 11:	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 12:	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 13:	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 14:	Jinko Solar (U.S.) Industries Inc.
	4660 Pow-Mia Memorial Parkway, Suite 200
	Jacksonville, FL, 32221, USA
Factory inspection report no.:	862010440.002
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Manufacturer 15: Jinko Solar Technology (Haining) Co., Ltd. No. 89, Lianhong Road, Yuanhua Town, Haining City, Jiaxing City, Zhejiang, P.R. China 862010467.002 Factory inspection report no .: Manufacturer 16: Jinko Solar (Yiwu) Co., Ltd. 1555# Chengxin Road, Niansanli street Yiwu city, Zhejiang Province, P.R. China Factory inspection report no .: 862010488.002 Manufacturer 17: 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 18: VIETNAM SUNERGY JOINT STOCK COMPANY Lot III - Dong Vang, Dinh Tram Industrial Park, Hoang Ninh Commune Viet Yen District, Bac Giang Province, Vietnam Factory inspection report no .: 862010516.001 Manufacturer 19: GREEN WING SOLAR TECHNOLOGY CO., LTD. Lot D1-1, Dai Dong-Hoan Son Industrial Zone, Hoan Son Commune, Tien Du District, Bac Ninh Province VIETNAM Factory inspection report no .: 862010522.001 Manufacturer 20: 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 Manufacturer 21: Mecen Solar Vina Co., Ltd. Lot CN2-2 and CN9-4, Yen Phong Industrial Park (expanded area), Yen Trung Commune, Yen Phong District, Bac Ninh Province, Vietnam Factory inspection report no .: 862010544.001



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Manufacturer 22:	Green Wing Solar Technology VietNam CO., LTD Leasing workshop of Hai Cuong Phat Co., Ltd at Lot CN 5C-4, Que Vo III Industrial Park, Viet Hung Commune, Que Vo District, Bac Ninh Province, Vietnam
Factory inspection report no.:	862010542.001
Manufacturer 23:	Jinko Solar (Malaysia) Sdn Bhd Lot 393, Jalan Perusahaan Valdor Kawasan Perindustrian Valdor, 14110 Simpang Ampat, Pulau Pinang, Malaysia.
Factory inspection report no.:	862010548.001
Manufacturer 24:	Jinko Solar Technology Sdn Bhd NO 1412, LORONG PERUSAHAAN 1, KAWASAN PERINDUSTRIAN PERAI, 13600 PERAI, PULAU PINANG
Factory inspection report no.:	862010572.001

Remark:

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

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Anlage 2 zum Zertifikat Nr.: / Annex 2 to Certificate No.: 44 780 20 406749 - 120R10A6M13 Aktenzeichen: / File reference: PVP07013/21P-02

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Description of product(s):

Module types:

PV Modules with 6" Poly-crystalline Silicon Solar Cells 72 cells: JKMxxxP-72(xxx=250-390, with increments of 5) 72 cells: JKMxxxP-72B(xxx=250-390, with increments of 5) 72 cells: JKMxxxP-72-J(xxx=250-390, with increments of 5) 72 cells: JKMxxxP-72-J4(xxx=250-390, with increments of 5) 72 cells: JKMxxxP-72-J4-J(xxx=250-390, with increments of 5) 72 cells: JKMxxxP-72B-J4(xxx=250-390, with increments of 5) 72 cells: JKMxxxP-72B-J4-J(xxx=250-390, with increments of 5) 72 cells: JKMxxxPP-72(xxx=250-390, with increments of 5) 72 cells: JKMxxxPP-72B(xxx=250-390, with increments of 5) 72 cells: JKMxxxPP-72-J(xxx=250-390, with increments of 5) 72 cells: JKMxxxPP-72-J4(xxx=250-390, with increments of 5) 72 cells: JKMxxxPP-72-J4(Plus) (xxx=250-390, with increments of 5) 72 cells: JKMxxxPP-72-J4-J(xxx=250-390, with increments of 5) 72 cells: JKMxxxPP-72B-J4(xxx=250-390, with increments of 5) 72 cells: JKMxxxPP-72B-J4-J(xxx=250-390, with increments of 5) 72 cells: JKMxxxPP-72(Plus)(xxx=250-390, with increments of 5) 72 cells: JKMxxxPP-72(Plus)-J(xxx=250-390, with increments of 5) 72 cells: JKMxxxPP-72-W(xxx=250-390, with increments of 5) 72 cells: JKMSxxxP-72(xxx=250-390, with increments of 5) 72 cells: JKMSxxxP-72B(xxx=250-390, with increments of 5) 72 cells: JKMSxxxP-72-J(xxx=250-390, with increments of 5) 72 cells: JKMSxxxP-72-J4(xxx=250-390, with increments of 5) 72 cells: JKMSxxxP-72-J4-J(xxx=250-390, with increments of 5) 72 cells: JKMSxxxP-72B-J4(xxx=250-390, with increments of 5) 72 cells: JKMSxxxP-72B-J4-J(xxx=250-390, with increments of 5) 72 cells: JKMSxxxPP-72(xxx=250-390, with increments of 5) 72 cells: JKMSxxxPP-72B(xxx=250-390, with increments of 5) 72 cells: JKMSxxxPP-72-J(xxx=250-390, with increments of 5) 72 cells: JKMSxxxPP-72-J4(xxx=250-390, with increments of 5) 72 cells: JKMSxxxPP-72-J4(Plus) (xxx=250-390, with increments of 5) 72 cells: JKMSxxxPP-72-J4-J(xxx=250-390, with increments of 5) 72 cells: JKMSxxxPP-72B-J4(xxx=250-390, with increments of 5) 72 cells: JKMSxxxPP-72B-J4-J(xxx=250-390, with increments of 5) 72 cells: JKMSxxxPP-72(Plus)(xxx=250-390, with increments of 5) 72 cells: JKMSxxxPP-72(Plus)-J(xxx=250-390, with increments of 5) 72 cells: JKMSxxxPP-72-W(xxx=250-390, with increments of 5) 72 cells: JKMSxxxPP-72-MX(xxx=250-390, with increments of 5)



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72 cells: JKMSxxxPP-72B-MX (xxx=250-390, with increments of 5) 72 cells: JKMSxxxPP-72-J4-MX(xxx=250-390, with increments of 5) 72 cells: JKMSxxxPP-72B-J4-MX(xxx=250-390, with increments of 5) 72 cells: JKMSxxxPP-72(Plus)-MX (xxx=250-390, with increments of 5) 72 cells: JKMSxxxPP-72-W-MX(xxx=250-390, with increments of 5) 72 cells: JKMSxxxPP-72-MX3(xxx=250-390, with increments of 5) 72 cells: JKMSxxxPP-72B-MX3(xxx=250-390, with increments of 5) 72 cells: JKMSxxxPP-72L-MX3(xxx=250-390, with increments of 5) 72 cells: JKMSxxxPP-72BL-MX3(xxx=320-355, with increments of 5) 60 cells: JKMxxxP-60(xxx=210-325, with increments of 5) 60 cells: JKMxxxP-60B(xxx=210-325, with increments of 5) 60 cells: JKMxxxP-60-J(xxx=210-325, with increments of 5) 60 cells: JKMxxxP-60-J4(xxx=210-325, with increments of 5) 60 cells: JKMxxxP-60-J4-J(xxx=210-325, with increments of 5) 60 cells: JKMxxxP-60B-J4(xxx=210-325, with increments of 5) 60 cells: JKMxxxP-60B-J4-J(xxx=210-325, with increments of 5) 60 cells: JKMxxxPP-60(xxx=210-325, with increments of 5) 60 cells: JKMxxxPP-60B(xxx=210-325, with increments of 5) 60 cells: JKMxxxPP-60-J(xxx=210-325, with increments of 5) 60 cells: JKMxxxPP-60-J4(xxx=210-325, with increments of 5) 60 cells: JKMxxxPP-60-J4(Plus) (xxx=210-325, with increments of 5) 60 cells: JKMxxxPP-60-J4-J(xxx=210-325, with increments of 5) 60 cells: JKMxxxPP-60B-J4(xxx=210-325, with increments of 5) 60 cells: JKMxxxPP-60B-J4-J(xxx=210-325, with increments of 5) 60 cells: JKMxxxPP-60(Plus)(xxx=210-325, with increments of 5) 60 cells: JKMxxxPP-60(Plus)-J(xxx=210-325, with increments of 5) 60 cells: JKMxxxPP-60-W(xxx=210-325, with increments of 5) 60 cells: JKMSxxxP-60(xxx=210-325, with increments of 5) 60 cells: JKMSxxxP-60B(xxx=210-325, with increments of 5) 60 cells: JKMSxxxP-60-J(xxx=210-325, with increments of 5) 60 cells: JKMSxxxP-60-J4(xxx=210-325, with increments of 5) 60 cells: JKMSxxxP-60-J4-J(xxx=210-325, with increments of 5) 60 cells: JKMSxxxP-60B-J4(xxx=210-325, with increments of 5) 60 cells: JKMSxxxP-60B-J4-J(xxx=210-325, with increments of 5) 60 cells: JKMSxxxPP-60(xxx=210-325, with increments of 5) 60 cells: JKMSxxxPP-60B(xxx=210-325, with increments of 5) 60 cells: JKMSxxxPP-60-J(xxx=210-325, with increments of 5) 60 cells: JKMSxxxPP-60-J4(xxx=210-325, with increments of 5) 60 cells: JKMSxxxPP-60-J4(Plus) (xxx=210-325, with increments of 5) 60 cells: JKMSxxxPP-60-J4-J(xxx=210-325, with increments of 5)



Class A

Class II

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60 cells: JKMSxxxPP-60B-J4(xxx=210-325, with increments of 5) 60 cells: JKMSxxxPP-60B-J4-J(xxx=210-325, with increments of 5) 60 cells: JKMSxxxPP-60(Plus)(xxx=210-325, with increments of 5) 60 cells: JKMSxxxPP-60(Plus)-J(xxx=210-325, with increments of 5) 60 cells: JKMSxxxPP-60-W(xxx=210-325, with increments of 5) 60 cells: JKMSxxxPP-60-MX(xxx=210-325, with increments of 5) 60 cells: JKMSxxxPP-60B-MX (xxx=210-325, with increments of 5) 60 cells: JKMSxxxPP-60-J4-MX(xxx=210-325, with increments of 5) 60 cells: JKMSxxxPP-60B-J4-MX(xxx=210-325, with increments of 5) 60 cells: JKMSxxxPP-60(Plus)-MX (xxx=210-325, with increments of 5) 60 cells: JKMSxxxPP-60-W-MX(xxx=210-325, with increments of 5) 60 cells: JKMSxxxPP-60-MX3(xxx=210-325, with increments of 5) 60 cells: JKMSxxxPP-60B-MX3(xxx=210-325, with increments of 5) 60 cells: JKMSxxxPP-60L-MX3(xxx=210-325, with increments of 5) 60 cells: JKMSxxxPP-60BL-MX3(xxx=260-290, with increments of 5) 1000V 15A or 20A or 25A

Maximum system voltage:

Fuse rating:

Application class:

Electrical protection class:

Module types:



TÜV NORD CERT GmbH Certification Body Consumer Products 144 half-cut cells: JKMxxxPP-72HB(xxx=250-390, with increments of 5)

PV Modules with 6" Poly-crystalline Silicon Half-cut Solar Cells 144 half-cut cells: JKMxxxPP-72H(xxx=250-390, with increments of 5)

144 half-cut cells: JKMxxxPP-72H-J4(xxx=250-390, with increments of 5) 144 half-cut cells: JKMxxxPP-72H(xxx=250-390, with increments of 5) 144 half-cut cells: JKMxxxPP-72H-J4(xxx=250-390, with increments of 5) 144 half-cut cells: JKMxxxPP-72HB(xxx=250-390, with increments of 5) 144 half-cut cells: JKMSxxxPP-72H-MX3(xxx=250-390, with increments of 5)

144 half-cut cells: JKMSxxxPP-72HB-MX3(xxx=250-390, with increments of 5)

144 half-cut cells: JKMSxxxPP-72HL-MX3(xxx=250-390, with increments of 5)

144 half-cut cells: JKMSxxxPP-72HBL-MX3(xxx=320-355, with increments of 5)

120 half-cut cells: JKMxxxPP-60H(xxx=210-325, with increments of 5)

120 half-cut cells: JKMxxxPP-60HB(xxx=210-325, with increments of 5)

120 half-cut cells: JKMxxxPP-60H-J4 (xxx=210-325, with increments of 5)

120 half-cut cells: JKMxxxPP-60H(xxx=210-325, with increments of 5)



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120 half-cut cells: JKMxxxPP-60H-J4(xxx=210-325, with increments of 5) 120 half-cut cells: JKMxxxPP-60HB(xxx=210-325, with increments of 5) 120 half-cut cells: JKMSxxxPP-60H-MX3(xxx=210-325, with increments of 5) 120 half-cut cells: JKMSxxxPP-60HB-MX3(xxx=210-325, with increments of 5) 120 half-cut cells: JKMSxxxPP-60HL-MX3(xxx=210-325, with increments of 5) 120 half-cut cells: JKMSxxxPP-60HBL-MX3(xxx=260-315, with increments of 5) 1000V 15A or 20A or 25A Class A Class II PV Modules with 6" Mono-crystalline Silicon Solar Cells 72 cells: JKMxxxM-72(xxx=250-420, with increments of 5) 72 cells: JKMxxxM-72B(xxx=250-420, with increments of 5) 72 cells: JKMxxxM-72BL(xxx=250-420, with increments of 5) 72 cells: JKMxxxM-72-J(xxx=250-420, with increments of 5) 72 cells: JKMxxxM-72L(xxx=250-420, with increments of 5) 72 cells: JKMxxxM-72(Plus)(xxx=250-420, with increments of 5) 72 cells: JKMSxxxM-72(xxx=250-420, with increments of 5) 72 cells: JKMSxxxM-72B(xxx=250-420, with increments of 5) 72 cells: JKMSxxxM-72-J(xxx=250-420, with increments of 5) 72 cells: JKMSxxxM-72(Plus)(xxx=250-420, with increments of 5) 72 cells: JKMSxxxM-72-MX(xxx=250-420, with increments of 5) 72 cells: JKMSxxxM-72L-MX(xxx=250-420, with increments of 5) 72 cells: JKMSxxxM-72B-MX(xxx=250-420, with increments of 5) 72 cells: JKMSxxxM-72BL-MX(xxx=250-420, with increments of 5) 72 cells: JKMSxxxM-72(Plus)-MX(xxx=250-420, with increments of 5) 72 cells: JKMSxxxM-72-MX3(xxx=250-395, with increments of 5) 72 cells: JKMSxxxM-72B-MX3(xxx=250-395, with increments of 5) 72 cells: JKMSxxxM-72L-MX3(xxx=250-395, with increments of 5) 72 cells: JKMSxxxM-72BL-MX3(xxx=335-395, with increments of 5) 72 cells: MMxxx-72LA-MB(xxx=335-410, with increments of 5) 72 cells: MMxxx-72LA-AB(xxx=335-410, with increments of 5) 72 cells: SMMxxx-72LA-MB(xxx=335-410, with increments of 5) 72 cells: SMMxxx-72LA-MB-TI(xxx=335-410, with increments of 5) 72 cells: SMMxxx-72LA-AB-TI(xxx=335-410, with increments of 5)

Maximum system voltage:

Fuse rating:

Application class:

Electrical protection class:

Module types:





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72 cells: SMMxxx-72LA-MB-MX3(xxx=335-395, with increments of 5) 72 cells: SMMxxx-72LA-AB-MX3(xxx=335-395, with increments of 5) 72 cells: JKMSxxxM-72-TI(xxx=335-410, with increments of 5) 72 cells: JKMSxxxM-72L-TI(xxx=335-410, with increments of 5) 72 cells: JKMSxxxM-72B-TI(xxx=335-410, with increments of 5) 72 cells: JKMSxxxM-72BL-TI(xxx=335-410, with increments of 5) 60 cells: JKMxxxM-60(xxx=210-350, with increments of 5) 60 cells: JKMxxxM-60B(xxx=210-350, with increments of 5) 60 cells: JKMxxxM-60BL(xxx=210-350, with increments of 5) 60 cells: JKMxxxM-60-J(xxx=210-350, with increments of 5) 60 cells: JKMxxxM-60L(xxx=210-350, with increments of 5) 60 cells: JKMxxxM-60(Plus)(xxx=210-350, with increments of 5) 60 cells: JKMSxxxM-60(xxx=210-350, with increments of 5) 60 cells: JKMSxxxM-60B(xxx=210-350, with increments of 5) 60 cells: JKMSxxxM-60-J(xxx=210-350, with increments of 5) 60 cells: JKMSxxxM-60(Plus)(xxx=210-350, with increments of 5) 60 cells: JKMSxxxM-60-MX(xxx=210-350, with increments of 5) 60 cells: JKMSxxxM-60L-MX(xxx=210-350, with increments of 5) 60 cells: JKMSxxxM-60B-MX(xxx=210-350, with increments of 5) 60 cells: JKMSxxxM-60BL-MX(xxx=210-350, with increments of 5) 60 cells: JKMSxxxM-60(Plus)-MX(xxx=210-350, with increments of 5) 60 cells: JKMSxxxM-60-MX3(xxx=210-350, with increments of 5) 60 cells: JKMSxxxM-60B-MX3(xxx=210-350, with increments of 5) 60 cells: JKMSxxxM-60BL-MX3(xxx=270-340, with increments of 5) 60 cells: JKMSxxxM-60L-MX3(xxx=210-350, with increments of 5) 60 cells: MMxxx-60LA-AB(xxx=270-340, with increments of 5) 60 cells: SMMxxx-60LA-MB-TI(xxx=270-340, with increments of 5) 60 cells: SMMxxx-60LA-AB-TI(xxx=270-340, with increments of 5) 60 cells: SMMxxx-60LA-MB-MX3(xxx=270-340, with increments of 5) 60 cells: SMMxxx-60LA-AB-MX3(xxx=270-340, with increments of 5) 60 cells: JKMSxxxM-60-TI(xxx=270-340, with increments of 5) 60 cells: JKMSxxxM-60L-TI(xxx=270-340, with increments of 5) 60 cells: JKMSxxxM-60B-TI(xxx=270-340, with increments of 5) 60 cells: JKMSxxxM-60BL-TI(xxx=270-340, with increments of 5) 1000V 15A or 20A or 25A Class A Class II

Maximum system voltage: Fuse rating: Application class: Electrical protection class:



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Anlage 2 zum Zertifikat Nr.: / Annex 2 to Certificate No.: 44 780 20 406749 - 120R10A6M13

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Module types:

PV Modules with 6" Mono-crystalline Silicon Half-cut Solar Cells

156 half-cut cells: JKSM3-DFCA-xxx(xxx=400-465,with increments of 5) 156 half-cut cells: JKSM3-DHCA-xxx(xxx=400-480, with increments of 5) 156 half-cut cells: JKSN3-DHCA-xxx(xxx=410-465,with increments of 5) 156 half-cut cells: JKMxxxM-78H (xxx=405-465, with increments of 5) 156 half-cut cells: JKMxxxM-78H-MBB(xxx=440-465, with increments of 5)

156 half-cut cells: JKMSxxxM-78H-MBB-MX3 (xxx=440-465, with increments of 5)

156 half-cut cells: JKMSxxxM-78H-TI(xxx=405-465, with increments of 5) 156 half-cut cells: JKMxxxM-78HB(xxx=405-435, with increments of 5) 156 half-cut cells: JKMSxxxM-78HB-TI(xxx=405-435, with increments of 5)

156 half-cut cells: JKMxxxM-78H-T(xxx=405-455, with increments of 5) 156 half-cut cells: JKMxxxN-78H-T(xxx=410-460, with increments of 5) 156 half-cut cells: JKMxxxM-7RL3(xxx=430-495, with increments of 5) 156 half-cut cells: JKMxxxM-7RL3-J(xxx=430-495, with increments of 5) 156 half-cut cells: JKMSxxXM-7RL3-TI(xxx=430-495, with increments of 5)

156 half-cut cells: JKMxxxN-7RL3(xxx=430-490, with increments of 5) 156 half-cut cells: JKMxxxN-7RL3-J(xxx=430-490, with increments of 5) 156 half-cut cells: JKMSxxxN-7RL3-TI(xxx=430-490, with increments of 5)

156 half-cut cells: JKMxxxM-7RL3-T(xxx=420-475, with increments of 5) 156 half-cut cells: JKMxxxM-7RL3-T-J(xxx=420-475, with increments of 5)

156 half-cut cells: JKMxxxN-7RL3-T(xxx=425-475, with increments of 5) 156 half-cut cells: JKMxxxN-7RL3-T-J(xxx=425-475, with increments of 5)

156 half-cut cells: JKMxxxM-7RL3-B(xxx=425-480, with increments of 5) 156 half-cut cells: JKMxxxN-7RL3-B(xxx=425-480, with increments of 5)

156 half-cut cells: JKMSxxxM-7RL3-B-TI(xxx=425-480, with increments of 5)

156 half-cut cells: JKMSxxxN-7RL3-B-TI(xxx=425-480, with increments of 5)

156 half-cut cells: MMxxx-78HLA-MB(xxx=405-465, with increments of 5) 156 half-cut cells: MMxxx-78HLA-MB-MBB(xxx=440-465, with increments of 5)

156 half-cut cells: SMMxxx-78HLA-MB-TI(xxx=405-465, with increments of 5)

156 half-cut cells: MMxxx-78HLA-AB(xxx=405-435, with increments of 5)

Allas



Aktenzeichen: / File reference: PVP07013/21P-02

156 half-cut cells: SMMxxx-78HLA-AB-TI(xxx=405-435, with increments of 5)

156 half-cut cells: MMxxx-7RLC-MB(xxx=430-475, with increments of 5) 156 half-cut cells: SMMxxx-7RLC-MB-TI(xxx=430-475, with increments of 5)

156 half-cut cells: MMxxx-7RLC-AB(xxx=425-480, with increments of 5) 156 half-cut cells: SMMxxx-7RLC-AB-TI(xxx=425-480, with increments of 5)

156 half-cut cells: MNxxx-7RLC-AB(xxx=425-480, with increments of 5) 156 half-cut cells: SMNxxx-7RLC-AB-TI(xxx=425-480, with increments of 5)

156 half-cut cells: MNxxx-7RLC-MB(xxx=430-490, with increments of 5) 156 half-cut cells: SMNxxx-7RLC-MB-TI(xxx=430-490, with increments of 5)

144 half-cut cells: JKMxxxM-72H(xxx=250-425, with increments of 5) 144 half-cut cells: JKMxxxM-72HL(xxx=250-425, with increments of 5) 144 half-cut cells: JKMxxxM-72HB(xxx=250-425, with increments of 5) 144 half-cut cells: JKMxxxM-72HBL(xxx=250-425, with increments of 5) 144 half-cut cells: JKMSxxxM-72H-TI(xxx=250-425, with increments of 5) 144 half-cut cells: JKMSxxxM-72HL-TI(xxx=250-425, with increments of 5)

144 half-cut cells: JKMSxxxM-72HB-TI(xxx=250-425, with increments of 5)

144 half-cut cells: JKMSxxxM-72HBL-TI (xxx=250-425, with increments of 5)

144 half-cut cells: JKMxxxM-72H(xxx=250-420, with increments of 5) 144 half-cut cells: JKMSxxxM-72H-MX3(xxx=250-395, with increments of 5)

144 half-cut cells: JKMSxxxM-72HB-MX3(xxx=250-395, with increments of 5)

144 half-cut cells: JKMSxxxM-72HL-MX3(xxx=250-395, with increments of 5)

144 half-cut cells: JKMxxxM-72H-T(xxx=375-455, with increments of 5) 144 half-cut cells: JKMxxxM-72HL-T(xxx=375-455, with increments of 5) 144 half-cut cells: JKMxxxM-72HL-T-Q(xxx=375-425, with increments of 5)

144 half-cut cells: JKMxxxN-72H-T(xxx=375-455, with increments of 5) 144 half-cut cells: JKMxxxN-72HL-T(xxx=375-455, with increments of 5) 144 half-cut cells: MMxxx-72HLA-MB(xxx=335-425, with increments of 5) 144 half-cut cells: MMxxx-72HLA-AB(xxx=335-425, with increments of 5) 144 half-cut cells: SMMxxx-72HLA-MB-TI(xxx=335-425, with increments of 5)

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144 half-cut cells: SMMxxx-72HLA-AB-TI(xxx=335-425, with increments of 5)

144 half-cut cells: SMMxxx-72HLA-MB-MX3(xxx=335-395, with increments of 5)

144 half-cut cells: SMMxxx-72HLA-AB-MX3(xxx=335-395, with increments of 5)

144 half-cut cells: MMxxx-72HLA-BB(xxx=375-425, with increments of 5)

144 half-cut cells: MMxxx-72HLM-MB(xxx=420-465, with increments of 5)

144 half-cut cells: MNxxx-72HLA-AB-MBB(xxx=380-400, with increments of 5)

144 half-cut cells: SMNxxx-72HLA-AB-MBB-TI (xxx=380-400, with increments of 5)

144 half-cut cells: MNxxx-72HLA-AB-MBB-TI(xxx=380-400, with increments of 5)

144 half-cut cells: MNxxx-72HLA-MB-MBB(xxx=385-425, with increments of 5)

144 half-cut cells: SMNxxx-72HLA-MB-MBB-TI(xxx=385-425, with increments of 5)

144 half-cut cells: JKMxxxM-72H-MBB-T(xxx=370-435, with increments of 5)

144 half-cut cells: JKMxxxN-72H-MBB-T(xxx=375-455,with increments of 5)

144 half-cut cells: JKMxxxM-72H-MBB(xxx=370-440, with increments of 5)

144 half-cut cells: JKMxxxN-72H-MBB(xxx=385-425, with increments of 5)

144 half-cut cells: JKMSxxxN-72H-MBB-TI(xxx=385-425, with increments of 5)

144 half-cut cells: JKMxxxM-72HLM(xxx=420-465, with increments of 5) 144 half-cut cells: JKMSxxxM-72HLM-MX3(xxx=420-465, with increments of 5)

144 half-cut cells: JKMxxxN-72H-MBB-B(xxx=380-400, with increments of 5)

144 half-cut cells: JKMSxxxN-72H-MBB-B-TI(xxx=380-400, with increments of 5)

144 half-cut cells: JKMxxxN-72HL3-MBB-B(xxx=400-445, with increments of 5)

144 half-cut cells: JKMSxxxM-72H-MBB-TI(xxx=385-425, with increments of 5)

144 half-cut cells: JKMSxxxM-72H-MBB-MX3(xxx=385-425, with increments of 5)

144 half-cut cells: MMxxx-72HLA-MB-MBB(xxx=385-425, with increments of 5)

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144 half-cut cells: SMMxxx-72HLA-MB-MBB-TI(xxx=385-425, with increments of 5)

144 half-cut cells: JKMSxxxM-72HL-MX3-Q(xxx=335-395, with increments of 5)

144 half-cut cells: JKMSxxxM-72HBL-MX3-Q(xxx=335-395, with increments of 5)

144 half-cut cells: JKMxxxM-72HLM-B(xxx=415-445, with increments of 5)

144 half-cut cells: JKMSxxxM-72HLM-B-MX3 (xxx=415-445, with increments of 5)

144 half-cut cells: JKMxxxM-72HLM-TV(xxx=425-460, with increments of 5)

144 half-cut cells: JKMxxxM-72HLM-B-V(xxx=415-445, with increments of 5)

144 half-cut cells: JKMSxxxM-72HLM-B-V-MX3(xxx=415-445, with increments of 5)

132 half-cut cells: JKSM3-CFCA-xxx(xxx=335-390,with increments of 5)

132 half-cut cells: JKSM3-CHCA-xxx(xxx=340-405,with increments of 5)

132 half-cut cells: JKSN3-CHCA-xxx(xxx=340-390,with increments of 5)

132 half-cut cells: JKMxxxM-66H(xxx=340-390, with increments of 5)

132 half-cut cells: JKMxxxM-66HB(xxx=340-365, with increments of 5)

132 half-cut cells: JKMSxxxM-66HB-TI(xxx=340-365, with increments of 5)

132 half-cut cells: JKMxxxM-66H-MBB(xxx=370-390, with increments of 5)

132 half-cut cells: JKMSxxxM-66H-MBB-MX3 (xxx=370-390, with increments of 5)

132 half-cut cells: JKMxxxM-66H-T(xxx=340-385, with increments of 5)

132 half-cut cells: JKMSxxxM-66H-TI(xxx=340-390, with increments of 5)

132 half-cut cells: JKMxxxN-66H-T(xxx=345-385, with increments of 5)

132 half-cut cells: MMxxx-66HLA-MB(xxx=340-390, with increments of 5) 132 half-cut cells: MMxxx-66HLA-MB-MBB(xxx=370-390, with increments of 5)

132 half-cut cells: SMMxxx-66HLA-MB-TI(xxx=340-390, with increments of 5)

132 half-cut cells: MMxxx-66HLA-AB(xxx=340-365, with increments of 5) 132 half-cut cells: SMMxxx-66HLA-AB-TI(xxx=340-365, with increments of 5)

132 half-cut cells: JKMxxxM-6RL3(xxx=360-415, with increments of 5)

132 half-cut cells: JKMxxxM-6RL3-J(xxx=360-415, with increments of 5) 132 half-cut cells: JKMSxxxM-6RL3-TI(xxx=360-415, with increments of 5)

132 half-cut cells: JKMxxxN-6RL3(xxx=360-410, with increments of 5)

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132 half-cut cells: JKMxxxN-6RL3-J(xxx=360-410, with increments of 5) 132 half-cut cells: JKMSxxxN-6RL3-TI(xxx=360-410, with increments of 5)

132 half-cut cells: JKMxxxM-6RL3-T(xxx=355-400, with increments of 5) 132 half-cut cells: JKMxxxM-6RL3-T-J(xxx=355-400, with increments of 5)

132 half-cut cells: JKMxxxN-6RL3-T(xxx=355-400, with increments of 5) 132 half-cut cells: JKMxxxN-6RL3-T-J(xxx=355-400, with increments of 5)

132 half-cut cells: JKMxxxM-6RL3-B(xxx=360-405, with increments of 5) 132 half-cut cells: JKMxxxN-6RL3-B(xxx=360-405, with increments of 5) 132 half-cut cells: JKMSxxxM-6RL3-B-TI(xxx=360-405, with increments of 5)

132 half-cut cells: JKMSxxxN-6RL3-B-TI(xxx=360-405, with increments of 5)

132 half-cut cells: MMxxx-6RLC-AB(xxx=360-405, with increments of 5) 132 half-cut cells: SMMxxx-6RLC-AB-TI(xxx=360-405, with increments of 5)

132 half-cut cells: MMxxx-6RLC-MB(xxx=360-400, with increments of 5) 132 half-cut cells: SMMxxx-6RLC-MB-TI(xxx=360-400, with increments of 5)

132 half-cut cells: MNxxx-6RLC-AB(xxx=360-405, with increments of 5) 132 half-cut cells: SMNxxx-6RLC-AB-TI(xxx=360-405, with increments of 5)

132 half-cut cells: MNxxx-6RLC-MB(xxx=360-410, with increments of 5) 132 half-cut cells: SMNxxx-6RLC-MB-TI(xxx=360-410, with increments of 5)

120 half-cut cells: JKMxxxM-60H(xxx=210-350, with increments of 5)

120 half-cut cells: JKMxxxM-60HL(xxx=210-350, with increments of 5)

120 half-cut cells: JKMxxxM-60HB(xxx=210-350, with increments of 5)

120 half-cut cells: JKMxxxM-60HBL(xxx=210-350, with increments of 5)

120 half-cut cells: JKMxxxM-60H(xxx=210-350, with increments of 5)

120 half-cut cells: JKMxxxM-60HB(xxx=210-350, with increments of 5)

120 half-cut cells: JKMSxxxM-60H-MX3(xxx=210-350, with increments of 5)

120 half-cut cells: JKMSxxxM-60HB-MX3(xxx=210-350, with increments of 5)

120 half-cut cells: JKMSxxxM-60HL-MX3(xxx=210-350, with increments of 5)

120 half-cut cells: JKMSxxxM-60HBL-MX3(xxx=270-340, with increments of 5)

120 half-cut cells: JKMxxxM-60H-T(xxx=300-375, with increments of 5)

120 half-cut cells: JKMxxxM-60HL-T(xxx=300-375, with increments of 5)



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120 half-cut cells: JKMxxxN-60H-T(xxx=315-355, with increments of 5) 120 half-cut cells: JKMxxxN-60HL-T(xxx=315-355, with increments of 5) 120 half-cut cells: JKMxxxN-60HL-T-Q(xxx=315-355, with increments of 5)

120 half-cut cells: JKMxxxN-60HL3-MBB-B(xxx=330-370, with increments of 5)

120 half-cut cells: JKMxxxN-60H-MBB-B(xxx=315-330, with increments of 5)

120 half-cut cells: JKMSxxxN-60H-MBB-B-TI(xxx=315-330, with increments of 5)

120 half-cut cells: MMxxx-60HLA-MB(xxx=270-350, with increments of 5)

120 half-cut cells: MMxxx-60HLA-AB(xxx=270-350, with increments of 5) 120 half-cut cells: SMMxxx-60HLA-MB-TI(xxx=270-350, with increments

of 5)

120 half-cut cells: SMMxxx-60HLA-AB-TI(xxx=270-350, with increments of 5)

120 half-cut cells: SMMxxx-60HLA-MB-MX3(xxx=270-340, with increments of 5)

120 half-cut cells: SMMxxx-60HLA-AB-MX3(xxx=270-340, with increments of 5)

120 half-cut cells: MMxxx-60HLA-BB(xxx=315-355, with increments of 5) 120 half-cut cells: MMxxx-60HLM-MB(xxx=350-385, with increments of 5)

120 half-cut cells: MNxxx-60HLA-AB-MBB(xxx=315-330, with increments of 5)

120 half-cut cells: SMNxxx-60HLA-AB-MBB-TI(xxx=315-330, with increments of 5)

120 half-cut cells: MNxxx-60HLA-MB-MBB(xxx=320-350, with increments of 5)

120 half-cut cells: SMNxxx-60HLA-MB-MBB-TI(xxx=320-350, with increments of 5)

120 half-cut cells: JKMxxxM-60H-MBB-T(xxx=310-360,with increments of 5)

120 half-cut cells: JKMxxxN-60H-MBB-T(xxx=310-370, with increments of 5)

120 half-cut cells: JKMxxxM-60H-MBB(xxx=310-365,with increments of 5)

120 half-cut cells: JKMxxxN-60H-MBB(xxx=320-350, with increments of 5)

120 half-cut cells: JKMSxxxN-60H-MBB-TI(xxx=320-350, with increments of 5)

120 half-cut cells: JKMxxxM-60HLM(xxx=350-385, with increments of 5) 120 half-cut cells: JKMSxxxM-60HLM-MX3(xxx=350-385, with increments of 5)

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Aktenzeichen: / File reference: PVP07013/21P-02

120 half-cut cells: JKMxxxM-6TL3-B(xxx=320-365, with increments of 5) 120 half-cut cells: JKMSxxxM-6TL3-B-TI(xxx=320-365, with increments of 5)

120 half-cut cells: JKMSxxxM-6TL3-B-MX3(xxx=320-365, with increments of 5)

120 half-cut cells: JKMxxxN-6TL3(xxx=335-375, with increments of 5)

120 half-cut cells: JKMxxxM-6TL3(xxx=335-380, with increments of 5) 120 half-cut cells: JKMSxxxM-6TL3-TI(xxx=335-380, with increments of 5)

120 half-cut cells: JKMSxxxM-6TL3-MX3(xxx=335-380, with increments of 5)

120 half-cut cells: JKMSxxxN-6TL3-TI(xxx=335-375, with increments of 5)

120 half-cut cells: JKMxxxN-6TL3-B(xxx=320-365, with increments of 5) 120 half-cut cells: JKMSxxxN-6TL3-B-TI(xxx=320-365, with increments of 5)

120 half-cut cells: MMxxx-6TLC-AB(xxx=320-365, with increments of 5) 120 half-cut cells: SMMxxx-6TLC-AB-TI(xxx=320-365, with increments of 5)

120 half-cut cells: MMxxx-6TLC-MB(xxx=335-365, with increments of 5) 120 half-cut cells: SMMxxx-6TLC-MB-TI(xxx=335-365, with increments of 5)

120 half-cut cells: MNxxx-6TLC-AB(xxx=320-365, with increments of 5) 120 half-cut cells: SMNxxx-6TLC-AB-TI(xxx=320-365, with increments of 5)

120 half-cut cells: MNxxx-6TLC-MB(xxx=335-375, with increments of 5) 120 half-cut cells: SMNxxx-6TLC-MB-TI(xxx=335-375, with increments of 5)

120 half-cut cells: JKMSxxxM-60H-TI(xxx=210-350, with increments of 5) 120 half-cut cells: JKMSxxxM-60HL-TI(xxx=210-350, with increments of 5)

120 half-cut cells: JKMSxxxM-60HB-TI(xxx=210-350, with increments of 5)

120 half-cut cells: JKMSxxxM-60HBL-TI(xxx=210-350, with increments of 5)

120 half-cut cells: JKMSxxxM-60HL-MX3-Q(xxx=270-340, with increments of 5)

120 half-cut cells: JKMSxxxM-60HBL-MX3-Q (xxx=270-340, with increments of 5)

120 half-cut cells: JKMxxxM-60HL-T-Q(xxx=315-355, with increments of 5)

120 half-cut cells: JKMSxxxM-60H-MBB-TI(xxx=310-365,with increments of 5)



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120 half-cut cells: JKMSxxxM-60H-MBB-MX3(xxx=310-365,with increments of 5)

120 half-cut cells: MMxxx-60HLA-MB-MBB (xxx=320-355,with increments of 5)

120 half-cut cells: SMMxxx-60HLA-MB-MBB-TI (xxx=320-355,with increments of 5)

120 half-cut cells: JKMxxxN-6TL3-T (xxx=325-365,with increments of 5) 120 half-cut cells: JKMxxxM-60HLM-B (xxx=350-370,with increments of 5)

120 half-cut cells: JKMSxxxM-60HLM-B-MX3 (xxx=350-370,with increments of 5)

120 half-cut cells: JKMxxxM-60HLM-TV(xxx=355-380,with increments of 5)

120 half-cut cells: JKMxxxM-60HLM-B-V(xxx=350-370,with increments of 5)

120 half-cut cells: JKMSxxxM-60HLM-B-V-MX(xxx=350-370,with increments of 5)

96 half-cut cells: JKMxxxN-48H-MBB-B(xxx=255-265, with increments of 5)

96 half-cut cells: JKMxxxN-48HL3-MBB-B(xxx=270-295, with increments of 5)

72 half-cut cells: JKMxxxM-36H(xxx=195-205, with increments of 5)

64 half-cut cells: JKMxxxN-32H-MBB-B(xxx=170-175, with increments of 5)

64 half-cut cells: JKMxxxN-32HL3-MBB-B(xxx=180-195, with increments of 5)

1000V

15A or 20A or 25A

Class A

Class II

Module types:

Fuse rating:

Application class:

Maximum system voltage:

Electrical protection class:

PV Modules with 7" Mono-crystalline Silicon Half-cut Solar Cells

156 half-cut cells JKMxxxM-7RL4(xxx=535-590, with increments of 5) 156 half-cut cells JKMxxxM-7RL4-J(xxx=535-590, with increments of 5) 156 half-cut cells: JKMxxxN-7RL4(xxx=535-590, with increments of 5) 156 half-cut cells: MMxxx7RLD-MB(xxx=535-590, with increments of 5) 156 half-cut cells: MNxxx7RLD-MB (xxx=535-590, with increments of 5) 156 half-cut cells: JKMxxxM-7RL4-B (xxx=540-575, with increments of 5) 156 half-cut cells: JKMxxxN-7RL4-B (xxx=540-575, with increments of 5) 156 half-cut cells: JKMxxxN-7RL4-B (xxx=540-575, with increments of 5) 144 half-cut cells: JKMxxxM-72HL4(xxx=475-555, with increments of 5)



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144 half-cut cells JKMxxxM-7TL4(xxx=495-570, with increments of 5) 144 half-cut cells JKMxxxM-7TL4-J(xxx=495-570, with increments of 5) 144 half-cut cells JKMxxxN-72HL4(xxx=485-555, with increments of 5) 144 half-cut cells: JKMxxxN-7TL4(xxx=495-570, with increments of 5) 144 half-cut cells: JKMxxxM-72HL4-B(xxx=510-535, with increments of 5)

144 half-cut cells: JKMxxxN-72HL4-B(xxx=510-535, with increments of 5) 144 half-cut cells: MMxxx-72HLD-MB(xxx=475-555, with increments of 5) 144 half-cut cells: MMxxx-7TLD-MB(xxx=495-540, with increments of 5) 144 half-cut cells MNxxx-72HLD-MB(xxx=495-555, with increments of 5) 144 half-cut cells MNxxx7TLD-MB (xxx=495-540, with increments of 5) 144 half-cut cells JKMxxxM-7TL4-B (xxx=495-530, with increments of 5) 144 half-cut cells JKMxxxN-7TL4-B (xxx=495-530, with increments of 5) 132 half-cut cells: JKMxxxN-66HL4(xxx=440-505, with increments of 5) 132 half-cut cells: JKMxxxN-66HL4(xxx=445-495, with increments of 5) 132 half-cut cells: JKMxxxN-66HL4(xxx=445-505, with increments of 5) 132 half-cut cells: JKMxxxN-66HL4(xxx=445-505, with increments of 5) 132 half-cut cells: JKMxxxN-66HL4(xxx=445-495, with increments of 5) 132 half-cut cells: JKMxxXN-66HL4(xxx=445-495, with increments of 5) 132 half-cut cells: JKMxxXN-66HL4(xxx=445-495, with increments of 5)

132 half-cut cells: JKMxxxN-66HL4-B(xxx=465-490, with increments of 5) 132 half-cut cells: MMxxx-66HLD-MB(xxx=440-505, with increments of 5) 132 half-cut cells: MMxxx-6RLD-MB(xxx=455-495, with increments of 5) 132 half-cut cells: MNxxx-66HLD-MB(xxx=445-505, with increments of 5) 132 half-cut cells: MNxxx6RLD-MB (xxx=455-495, with increments of 5) 132 half-cut cells: JKMxxxM-6RL4-B (xxx=455-485, with increments of 5) 132 half-cut cells: JKMxxxN-6RL4-B (xxx=455-485, with increments of 5) 120 half-cut cells: JKMxxxM-6RL4-B (xxx=405-485, with increments of 5) 120 half-cut cells: JKMxxxM-60HL4(xxx=400-460, with increments of 5) 120 half-cut cells: JKMxxxN-60HL4(xxx=415-450, with increments of 5) 120 half-cut cells: JKMxxxN-60HL4(xxx=405-460, with increments of 5)

120 half-cut cells: JKMxxxN-6TL4(xxx=415-450, with increments of 5) 120 half-cut cells: JKMxxxM-60HL4-B(xxx=425-445, with increments of 5)

120 half-cut cells: JKMxxxN-60HL4-B(xxx=425-445, with increments of 5) 120 half-cut cells: MMxxx-60HLD-MB(xxx=400-460, with increments of 5) 120 half-cut cells: MMxxx-6TLD-MB(xxx=415-450, with increments of 5)

120 half-cut cells: MNxxx-60HLD-MB (xxx=405-460, with increments of 5)

120 half-cut cells: MNxxx6TLD-MB (xxx=415-450, with increments of 5)

120 half-cut cells: JKMxxxM-6TL4-B (xxx=415-440, with increments of 5) 120 half-cut cells: JKMxxxN-6TL4-B (xxx=415-440, with increments of 5)

108 half-cut cells: JKMxxxM-54HL4(xxx=360-415, with increments of 5)

ORD CERT GmbH Certification Body **Consumer Products**



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Anlage 2 zum Zertifikat Nr.: / Annex 2 to Certificate No.: 44 780 20 406749 - 120R10A6M13

Aktenzeichen: / File reference: PVP07013/21P-02

	108 half-cut cells: JKMxxxM-5RL4(xxx=375-405, with increments of 5)
	108 half-cut cells: JKMxxxN-54HL4(xxx=365-415, with increments of 5)
	108 half-cut cells: JKMxxxN-5RL4(xxx=375-405, with increments of 5)
	108 half-cut cells: JKMxxxM-54HL4-B(xxx=380-400, with increments of 5)
	108 half-cut cells: JKMxxxN-54HL4-B(xxx=380-400, with increments of 5)
	108 half-cut cells: MMxxx-54HLD-MB(xxx=360-415, with increments of 5)
	108 half-cut cells: MMxxx-5RLD-MB(xxx=375-405, with increments of 5)
	108 half-cut cells: MNxxx-54HLD-MB (xxx=365-415, with increments of 5)
	108 half-cut cells: MNxxx5RLD-MB (xxx=375-405, with increments of 5)
	108 half-cut cells: JKMxxxM-5RL4-B (xxx=375-395, with increments of 5)
	108 half-cut cells: JKMxxxN-5RL4-B (xxx=375-395, with increments of 5)
Maximum system voltage:	1000V
Fuse rating:	25A or 30A
Application class:	Class A
Electrical protection class:	Class II
Module types:	PV Modules with 8" Mono-crystalline Silicon Half-cut Solar Cells
	132 half-cut cells: JKxxxM-66R5-MW(xxx=630-665, with increments of 5)
	132 half-cut cells: JKxxxM-66H5-MW(xxx=635-670, with increments of 5)
Maximum system voltage:	1000V
Fuse rating:	30A
Application class:	Class A
Electrical protection class:	Class II

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Anlage 2 zum Zertifikat Nr.: / Annex 2 to Certificate No.: 44 780 20 406749 - 120R10A6M13

Aktenzeichen: / File reference: PVP07013/21P-02

Module types:

PV Modules with 6" Poly-crystalline Silicon Solar Cells

72 cells: JKMxxxP-72-V(xxx=250-390, with increments of 5) 72 cells: JKMxxxP-72-V-J(xxx=250-390, with increments of 5) 72 cells: JKMxxxPP-72-V(xxx=250-390, with increments of 5) 72 cells: JKMxxxPP-72B-V(xxx=320-355, with increments of 5) 72 cells: JKMxxxPP-72B- (xxx=320-355, with increments of 5) 72 cells: JKMxxxPP-72(Plus)-V(xxx=250-390, with increments of 5) 72 cells: JKMxxxPP-72-V-J(xxx=250-390, with increments of 5) 72 cells: JKMxxxPP-72-J4V(xxx=250-390, with increments of 5) 72 cells: JKMSxxxP-72-V(xxx=250-390, with increments of 5) 72 cells: JKMSxxxP-72-V-J(xxx=250-390, with increments of 5) 72 cells: JKMSxxxPP-72-V(xxx=250-390, with increments of 5) 72 cells: JKMSxxxPP-72-V-J(xxx=250-390, with increments of 5) 72 cells: JKMSxxxPP-72-J4V(xxx=250-390, with increments of 5) 72 cells: JKMSxxxPP-72-MX-V(xxx=250-390, with increments of 5) 72 cells: JKMSxxxPP-72B-MX-V(xxx=250-390, with increments of 5) 72 cells: JKMSxxxPP-72-J4-MX-V(xxx=250-390, with increments of 5) 72 cells: JKMSxxxPP-72B-J4-MX-V(xxx=250-390, with increments of 5) 72 cells: JKMSxxxPP-72(Plus)-MX-V(xxx=250-390, with increments of 5) 72 cells: JKMSxxxPP-72-W-MX-V(xxx=250-390, with increments of 5) 72 cells: JKMSxxxPP-72-V-MX3(xxx=250-390, with increments of 5) 72 cells: JKMSxxxPP-72B-V-MX3(xxx=250-390, with increments of 5) 72 cells: JKMSxxxPP-72L-V-MX3(xxx=250-390, with increments of 5) 72 cells: JKMSxxxPP-72BL-V-MX3(xxx=320-355, with increments of 5) 60 cells: JKMxxxP-60-V(xxx=210-325, with increments of 5) 60 cells: JKMxxxP-60-V-J(xxx=210-325, with increments of 5) 60 cells: JKMxxxPP-60-V(xxx=210-325, with increments of 5) 60 cells: JKMxxxPP-60B-V(xxx=260-290, with increments of 5) 60 cells: JKMxxxPP-60(Plus)-V(xxx=210-325, with increments of 5) 60 cells: JKMxxxPP-60-V-J(xxx=210-325, with increments of 5) 60 cells: JKMxxxPP-60-J4V(xxx=210-325, with increments of 5) 60 cells: JKMSxxxP-60-V(xxx=210-325, with increments of 5) 60 cells: JKMSxxxP-60-V-J(xxx=210-325, with increments of 5) 60 cells: JKMSxxxPP-60-V(xxx=210-325, with increments of 5) 60 cells: JKMSxxxPP-60-V-J(xxx=210-325, with increments of 5) 60 cells: JKMSxxxPP-60-J4V(xxx=210-325, with increments of 5) 60 cells: JKMSxxxPP-60-MX-V(xxx=210-325, with increments of 5) 60 cells: JKMSxxxPP-60B-MX-V(xxx=210-325, with increments of 5) 60 cells: JKMSxxxPP-60-J4-MX-V(xxx=210-325, with increments of 5) 60 cells: JKMSxxxPP-60B-J4-MX-V(xxx=210-325, with increments of 5)

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	60 cells: JKMSxxxPP-60(Plus)-MX-V(xxx=210-325, with increments of 5) 60 cells: JKMSxxxPP-60-W-MX-V(xxx=210-325, with increments of 5) 60 cells: JKMSxxxPP-60-V-MX3(xxx=210-325, with increments of 5) 60 cells: JKMSxxxPP-60B-V-MX3(xxx=210-325, with increments of 5) 60 cells: JKMSxxxPP-60L-V-MX3(xxx=210-325, with increments of 5) 60 cells: JKMSxxxPP-60BL-V-MX3(xxx=260-290, with increments of 5)
Maximum system voltage:	1500V
Fuse rating:	15A or 20A or 25A
Application class:	Class A
Electrical protection class:	Class II
Module types:	PV Modules with 6" Poly-crystalline Silicon Half-cut Solar Cells 144 half-cut cells: JKMxxxPP-72H-V(xxx=250-390, with increments of 5) 144 half-cut cells: JKMxxxPP-72HB-V(xxx=250-390, with increments of 5) 144 half-cut cells: JKMxxxPP-72H-J4V(xxx=250-390, with increments of 5) 144 half-cut cells: JKMSxxxPP-72H-V-MX3(xxx=250-390, with increments of 5) 144 half-cut cells: JKMSxxxPP-72HB-V-MX3(xxx=250-390, with
	increments of 5) 144 half-cut cells: JKMSxxxPP-72HL-V-MX3(xxx=250-390, with increments of 5)
	144 half-cut cells: JKMSxxxPP-72HBL-V-MX3(xxx=330-380, with increments of 5)
	120 half-cut cells: JKMxxxPP-60H-V(xxx=210-325, with increments of 5) 120 half-cut cells: JKMxxxPP-60HB-V(xxx=210-325, with increments of 5)
	120 half-cut cells: JKMxxxPP-60H-J4V(xxx=210-325, with increments of 5)
	120 half-cut cells: JKMSxxxPP-60H-V-MX3(xxx=210-325, with increments of 5)
	120 half-cut cells: JKMSxxxPP-60HB-V-MX3(xxx=210-325, with increments of 5)
	120 half-cut cells JKMSxxxPP-60HL-V-MX3(xxx=210-325, with increments of 5)
	120 half-cut cells: JKMSxxxPP-60HBL-V-MX3(xxx=260-315, with increments of 5)
Maximum system voltage:	1500V
Fuse rating:	15A or 20A or 25A
Application class:	Class A
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Class II

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Electrical protection class:

Module types:

PV Modules with 6" Mono-crystalline Silicon Solar Cells 72 cells: JKMxxxM-72-V(xxx=250-420, with increments of 5) 72 cells: JKMSxxxM-72L-V-TI(xxx=250-410, with increments of 5) 72 cells: JKMxxxM-72B-V(xxx=250-410, with increments of 5) 72 cells: JKMxxxM-72(Plus)-V(xxx=250-420, with increments of 5) 72 cells: JKMxxxM-72-V-J(xxx=250-420, with increments of 5) 72 cells: JKMSxxxM-72-V(xxx=250-420, with increments of 5) 72 cells: JKMSxxxM-72-V-J(xxx=250-420, with increments of 5) 72 cells: JKMSxxxM-72-V-TI(xxx=250-420, with increments of 5) 72 cells: JKMxxxM-72L-V(xxx=250-420, with increments of 5) 72 cells: JKMxxxM-72BL-V(xxx=250-410, with increments of 5) 72 cells: JKMSxxxM-72-MX-V(xxx=250-420, with increments of 5) 72 cells: JKMSxxxM-72B-MX-V(xxx=250-420, with increments of 5) 72 cells: JKMSxxxM-72(Plus)-MX-V(xxx=250-420, with increments of 5) 72 cells: JKMSxxxM-72-V-MX3(xxx=250-395, with increments of 5) 72 cells: JKMSxxxM-72B-V-MX3(xxx=250-395, with increments of 5) 72 cells: JKMSxxxM-72B-V-TI(xxx=250-410, with increments of 5) 72 cells: JKMSxxxM-72BL-V-TI(xxx=250-410, with increments of 5) 72 cells: JKMSxxxM-72L-V-MX3(xxx=250-395, with increments of 5) 72 cells: JKMSxxxM-72BL-V-MX3(xxx=335-395, with increments of 5) 72 cells: MMxxx-72LA-MBV(xxx=335-410, with increments of 5) 72 cells: MMxxx-72LA-ABV(xxx=335-410, with increments of 5) 72 cells: SMMxxx-72LA-MBV(xxx=335-410, with increments of 5) 72 cells: SMMxxx-72LA-MBV-TI(xxx=335-410, with increments of 5) 72 cells: SMMxxx-72LA-ABV-TI(xxx=335-410, with increments of 5) 72 cells: SMMxxx-72LA-MBV-MX3(xxx=335-395, with increments of 5) 72 cells: SMMxxx-72LA-ABV-MX3(xxx=335-395, with increments of 5) 60 cells: JKMxxxM-60-V(xxx=210-350, with increments of 5) 60 cells: JKMxxxM-60B-V(xxx=210-350, with increments of 5) 60 cells: JKMxxxM-60BL-V(xxx=270-340, with increments of 5) 60 cells: JKMSxxxM-60L-V-TI(xxx=270-340, with increments of 5) 60 cells: JKMSxxxM-60BL-V-TI(xxx=270-340, with increments of 5) 60 cells: JKMSxxxM-60-V-TI(xxx=210-350, with increments of 5) 60 cells: JKMxxxM-60(Plus)-V(xxx=210-350, with increments of 5) 60 cells: JKMxxxM-60-V-J(xxx=210-350, with increments of 5) 60 cells: JKMSxxxM-60-V(xxx=210-350, with increments of 5) 60 cells: JKMSxxxM-60-V-J(xxx=210-350, with increments of 5)



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60 cells: JKMxxxM-60L-V(xxx=210-350, with increments of 5) 60 cells: JKMSxxxM-60-MX-V(xxx=210-350, with increments of 5) 60 cells: JKMSxxxM-60B-MX-V(xxx=210-350, with increments of 5) 60 cells: JKMSxxxM-60B-V-TI(xxx=210-350, with increments of 5) 60 cells: JKMSxxxM-60(Plus)-MX-V(xxx=210-350, with increments of 5) 60 cells: JKMSxxxM-60-V-MX3(xxx=210-350, with increments of 5) 60 cells: JKMSxxxM-60B-V-MX3(xxx=210-350, with increments of 5) 60 cells: JKMSxxxM-60L-V-MX3(xxx=210-350, with increments of 5) 60 cells: JKMSxxxM-60BL-V-MX3(xxx=270-340, with increments of 5) 60 cells: MMxxx-60LA-MBV(xxx=270-340, with increments of 5) 60 cells: MMxxx-60LA-ABV(xxx=270-340, with increments of 5) 60 cells: SMMxxx-60LA-MBV-TI(xxx=270-340, with increments of 5) 60 cells: SMMxxx-60LA-ABV-TI(xxx=270-340, with increments of 5) 60 cells: SMMxxx-60LA-MBV-MX3(xxx=270-340, with increments of 5) 60 cells: SMMxxx-60LA-ABV-MX3(xxx=270-340, with increments of 5) 1500V 15A or 20A or 25A Class A Class II

Maximum system voltage:

Fuse rating:

Application class:

Electrical protection class:

Module types:

PV Modules with 6" Mono-crystalline Silicon Half-cut Solar Cells

156 half-cut cells: JKSM3-DCCA-xxx(xxx=400-480, with increments of 5) 156 half-cut cells: JKSM3-DACA-xxx(xxx=400-465, with increments of 5) 156 half-cut cells: JKSN3-DCCA-xxx(xxx=410-465, with increments of 5) 156 half-cut cells: JKMxxxM-78H-V(xxx=405-465, with increments of 5) 156 half-cut cells: JKMSxxxM-78H-V-TI(xxx=405-465, with increments of 5)

156 half-cut cells: JKMxxxM-78H-V-Q(xxx=405-465, with increments of 5)

156 half-cut cells: JKMxxxM-78HB-V(xxx=405-450, with increments of 5) 156 half-cut cells: JKMSxxxM-78HB-V-TI(xxx=405-450, with increments of 5)

156 half-cut cells: JKMxxxM-78H-TV(xxx=405-455, with increments of 5) 156 half-cut cells: JKMxxxN-78H-TV(xxx=410-460, with increments of 5) 156 half-cut cells: JKMxxxM-78H-TV-Q(xxx=405-465, with increments of 5)

156 half-cut cells: MMxxx-78HLA-MBV(xxx=405-465, with increments of 5)

156 half-cut cells: MMxxx-78HLA-MBV-MBB(xxx=440-465, with increments of 5)



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156 half-cut cells: SMMxxx-78HLA-MBV-TI(xxx=405-465, with increments of 5)

156 half-cut cells: MMxxx-78HLA-ABV(xxx=405-450, with increments of 5)

156 half-cut cells: SMMxxx-78HLA-ABV-TI(xxx=405-450, with increments of 5)

156 half-cut cells: MMxxx-78HLA-BBV(xxx=405-470, with increments of 5)

156 half-cut cells: JKMxxxM-7RL3-V(xxx=430-495, with increments of 5) 156 half-cut cells: JKMxxxM-7RL3-V-J(xxx=430-495, with increments of 5)

156 half-cut cells: JKMxxxM-7RL3-S-V(xxx=430-495, with increments of 5)

156 half-cut cells: JKMxxxM-7RL3-S-V-J(xxx=430-495, with increments of 5)

156 half-cut cells: JKMxxxN-7RL3-V(xxx=430-490, with increments of 5) 156 half-cut cells: JKMxxxN-7RL3-V-J(xxx=430-495, with increments of 5)

156 half-cut cells: JKMSxxxM-7RL3-V-TI(xxx=430-495, with increments of 5)

156 half-cut cells: JKMSxxxM-7RL3-B-V-TI(xxx=425-480, with increments of 5)

156 half-cut cells: JKMxxxM-7RL3-TV(xxx=420-475, with increments of 5)

156 half-cut cells: JKMxxxM-7RL3-TV-J(xxx=420-475, with increments of 5)

156 half-cut cells: JKMxxxM-7RL3-S-TV(xxx=420-475, with increments of 5)

156 half-cut cells: JKMxxxM-7RL3-S-TV-J(xxx=420-475, with increments of 5)

156 half-cut cells: JKMxxxN-7RL3-TV(xxx=425-500, with increments of 5)

156 half-cut cells: JKMxxxN-7RL3-TV-J(xxx=425-500, with increments of 5)

156 half-cut cells: JKMxxxN-7RL3-S-TV(xxx=425-500, with increments of 5)

156 half-cut cells: JKMxxxN-7RL3-S-TV-J(xxx=425-500, with increments of 5)

156 half-cut cells: JKMxxxM-7RL3-B-V(xxx=425-480, with increments of 5)

156 half-cut cells: JKMxxxM-7RL3-S-B-V(xxx=425-480, with increments of 5)

156 half-cut cells: JKMxxxN-7RL3-B-V(xxx=425-480, with increments of 5)

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156 half-cut cells: JKMxxxN-7RL3-S-B-V(xxx=425-480, with increments of 5)

156 half-cut cells: JKMSxxxN-7RL3-B-V-TI(xxx=425-480, with increments of 5)

156 half-cut cells: JKMSxxxN-7RL3-V-TI(xxx=430-490, with increments of 5)

156 half-cut cells: MMxxx-7RLC-ABV(xxx=425-480, with increments of 5) 156 half-cut cells: SMMxxx-7RLC-ABV-TI(xxx=425-480, with increments of 5)

156 half-cut cells: MMxxx-7RLC-BBV(xxx=420-475, with increments of 5) 156 half-cut cells: MMxxx-7RLC-MBV(xxx=430-475, with increments of 5)

156 half-cut cells: SMMxxx-7RLC-MBV-TI(xxx=430-475, with increments of 5)

156 half-cut cells: MNxxx-7RLC-ABV(xxx=425-480, with increments of 5) 156 half-cut cells: SMNxxx-7RLC-ABV-TI(xxx=425-480, with increments of 5)

156 half-cut cells: MNxxx-7RLC-BBV(xxx=425-475, with increments of 5) 156 half-cut cells: MNxxx-7RLC-MBV(xxx=430-475, with increments of 5)

156 half-cut cells: SMNxxx-7RLC-MBV-TI(xxx=430-475, with increments of 5)

156 half-cut cells: JKMxxxM-78H-MBB-V(xxx=405-465, with increments of 5)

156 half-cut cells: JKMSxxxM-78H-MBB-V-MX3(xxx=405-465, with increments of 5)

156 half-cut cells: JKMSxxxM-78H-V-TI-Q(xxx=405-465, with increments of 5)

156 half-cut cells: MM-78HLA-MBV-MBB(xxx=440-465, with increments of 5)

144 half-cut cells: JKMxxxM-72H-V(xxx=250-450, with increments of 5)

144 half-cut cells: JKMxxxM-72HL-V(xxx=250-450, with increments of 5) 144 half-cut cells: JKMxxxM-72HL-V-Q(xxx=250-450, with increments of 5)

144 half-cut cells: JKMSxxxM-72HL-V-TI-Q(xxx=335-425, with increments of 5)

144 half-cut cells: JKMSxxxM-66H-V-TI-Q(xxx=340-390, with increments of 5)

144 half-cut cells: JKMxxxM-72HLM-V(xxx=420-465, with increments of 5)

144 half-cut cells: JKMSxxxM-72HLM-V-MX3(xxx=420-465, with increments of 5)

144 half-cut cells: JKMxxxM-72HB-V(xxx=250-450, with increments of 5) 144 half-cut cells: JKMxxxM-72HBL-V(xxx=250-450, with increments of 5)

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144 half-cut cells: JKMxxxM-72H-TV(xxx=375-455, with increments of 5) 144 half-cut cells: JKMxxxM-72HL-TV(xxx=375-455, with increments of 5)

144 half-cut cells: JKMxxxM-72HL-TV-Q(xxx=375-425, with increments of 5)

144 half-cut cells: JKMxxxN-72H-TV(xxx=375-455, with increments of 5) 144 half-cut cells: JKMxxxN-72HL-TV(xxx=375-455, with increments of 5)

144 half-cut cells: JKMSxxxM-72HB-V-MX3(xxx=335-395, with increments of 5)

144 half-cut cells: JKMSxxxM-72H-V-MX3(xxx=250-395, with increments of 5)

144 half-cut cells: JKMSxxxM-72H-V-TI(xxx=250-450, with increments of 5)

144 half-cut cells: JKMSxxxM-72HL-V-TI(xxx=335-425, with increments of 5)

144 half-cut cells: JKMSxxxM-72HBL-V-TI(xxx=335-425, with increments of 5)

144 half-cut cells: JKMSxxxM-72HB-V-TI(xxx=250-450, with increments of 5)

144 half-cut cells: JKMSxxxM-72HB-V-MX3(xxx=250-395, with increments of 5)

144 half-cut cells: JKMSxxxM-72HL-V-MX3(xxx=250-395, with increments of 5)

144 half-cut cells: JKMSxxxM-72HBL-V-MX3(xxx=335-395, with increments of 5)

144 half-cut cells: JKMxxxM-72H-MBB-V(xxx=385-440, with increments of 5)

144 half-cut cells: JKMxxxM-72H-MBB-TV(xxx=385-435, with increments of 5)

144 half-cut cells: JKMxxxN-72H-MBB-TV(xxx=390-445, with increments of 5)

144 half-cut cells: JKMxxxN-72H-MBB-V(xxx=385-425, with increments of 5)

144 half-cut cells: JKMSxxxM-72H-MBB-V-TI(xxx=370-440, with increments of 5)

144 half-cut cells: JKMSxxxN-72H-MBB-V-TI(xxx=385-450, with increments of 5)

144 half-cut cells: JKMxxxN-72H-MBB-B-V(xxx=380-400, with increments of 5)

144 half-cut cells: JKMSxxxN-72H-MBB-B-V-TI(xxx=380-400, with increments of 5)

144 half-cut cells: MMxxx-72HLA-MBV(xxx=335-425, with increments of 5)

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144 half-cut cells: MMxxx-72HLA-ABV(xxx=335-425 ,with increments of 5)

144 half-cut cells: SMMxxx-72HLA-MBV-TI(xxx=335-425, with increments of 5)

144 half-cut cells: SMMxxx-72HLA-ABV-TI(xxx=335-425, with increments of 5)

144 half-cut cells: MMxxx-72HLA-BBV(xxx=375-430, with increments of 5)

144 half-cut cells: MMxxx-72HLA-BBV-MBB(xxx=385-405, with increments of 5)

144 half-cut cells: MMxxx-72HLA-MBV-MBB(xxx=385-425, with increments of 5)

144 half-cut cells: SMMxxx-72HLA-MBV-MBB-TI(xxx=385-425, with increments of 5)

144 half-cut cells: SMMxxx-72HLA-MBV-MX3(xxx=250-395, with increments of 5)

144 half-cut cells: JKMSxxxM-72HL-V-MX3-Q(xxx=335-395, with increments of 5)

144 half-cut cells: MNxxx-72HLA-BBV-MBB(xxx=390-420, with increments of 5)

144 half-cut cells: SMMxxx-72HLA-ABV-MX3(xxx=250-395, with increments of 5)

144 half-cut cells: MNxxx-72HLA-ABV-MBB(xxx=380-400, with increments of 5)

144 half-cut cells: SMNxxx-72HLA-ABV-MBB-TI(xxx=380-400, with increments of 5)

144 half-cut cells: MNxxx-72HLA-MBV-MBB(xxx=385-425, with increments of 5)

144 half-cut cells: SMNxxx-72HLA-MBV-MBB-TI(xxx=385-425, with increments of 5)

144 half-cut cells: MMxxx-72HLM-MBV(xxx=420-465, with increments of 5)

144 half-cut cells: MM-72HLA-BBV-MBB(xxx=385-405, with increments of 5)

144 half-cut cells: JKMSxxxM-72H-MBB-V-MX3(xxx=385-425, with increments of 5)

144 half-cut cells: MM-72HLA-MBV-MBB(xxx=385-425, with increments of 5)

144 half-cut cells: SMM-72HLA-MBV-MBB-TI(xxx=385-425, with increments of 5)

132 half-cut cells: JKSM3-CCCA-xxx(xxx=340-405, with increments of 5)

132 half-cut cells: JKSM3-CACA-xxx(xxx=335-390, with increments of 5)

132 half-cut cells: JKSN3-CCCA-xxx(xxx=345-390, with increments of 5)

132 half-cut cells: JKMxxxM-66H-V(xxx=340-390, with increments of 5)

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132 half-cut cells: JKMSxxxM-66H-V-TI(xxx=340-390, with increments of 5)

132 half-cut cells: JKMxxxM-66H-V-Q(xxx=340-390, with increments of 5)

132 half-cut cells: JKMxxxM-66HB-V(xxx=340-365, with increments of 5) 132 half-cut cells: JKMSxxxM-66HB-V-TI(xxx=340-365, with increments of 5)

132 half-cut cells: JKMxxxM-66H-TV(xxx=340-385, with increments of 5) 132 half-cut cells: JKMxxxN-66H-TV(xxx=345-385, with increments of 5)

132 half-cut cells: JKMxxxM-66H-TV-Q(xxx=340-385, with increments of 5)

132 half-cut cells: MMxxx-66HLA-MBV(xxx=340-390, with increments of 5)

132 half-cut cells: MMxxx-66HLA-MBV-MBB(xxx=370-390, with increments of 5)

132 half-cut cells: MM-66HLA-MBV-MBB(xxx=370-390, with increments of 5)

132 half-cut cells: SMMxxx-66HLA-MBV-TI(xxx=340-390, with increments of 5)

132 half-cut cells: MMxxx-66HLA-ABV(xxx=340-380, with increments of 5)

132 half-cut cells: SMMxxx-66HLA-ABV-TI(xxx=340-380, with increments of 5)

132 half-cut cells: MMxxx-66HLA-BBV(xxx=340-395, with increments of 5)

132 half-cut cells: JKMxxxM-6RL3-V(xxx=360-415, with increments of 5)

132 half-cut cells: JKMxxxM-6RL3-V-J(xxx=360-415, with increments of 5)

132 half-cut cells: JKMSxxxM-6RL3-V-TI(xxx=360-415, with increments of 5)

132 half-cut cells: JKMxxxM-6RL3-S-V(xxx=360-415, with increments of 5)

132 half-cut cells: JKMxxxM-6RL3-S-V-J(xxx=360-415, with increments of 5)

132 half-cut cells: JKMSxxxM-6RL3-V-MX3(xxx=360-415, with increments of 5)

132 half-cut cells: JKMSxxxN-6RL3-V-TI(xxx=360-410, with increments of 5)

132 half-cut cells: JKMSxxxN-6RL3-V-MX3(xxx=360-410, with increments of 5)

132 half-cut cells: JKMxxxN-6RL3-V(xxx=360-410, with increments of 5)

132 half-cut cells: JKMxxxN-6RL3-V-J(xxx=360-410, with increments of 5)

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132 half-cut cells: JKMxxxM-6RL3-TV(xxx=355-400, with increments of 5)

132 half-cut cells: JKMxxxM-6RL3-TV-J(xxx=355-400, with increments of 5)

132 half-cut cells: JKMxxxM-6RL3-S-TV(xxx=355-400, with increments of 5)

132 half-cut cells: JKMxxxM-6RL3-S-TV-J(xxx=355-400, with increments of 5)

132 half-cut cells: JKMxxxN-6RL3-TV(xxx=355-420, with increments of 5)

132 half-cut cells: JKMxxxN-6RL3-TV-J(xxx=355-420, with increments of 5)

132 half-cut cells: JKMxxxN-6RL3-S-TV(xxx=355-420, with increments of 5)

132 half-cut cells: JKMxxxN-6RL3-S-TV-J(xxx=355-420, with increments of 5)

132 half-cut cells: JKMxxxM-6RL3-B-V(xxx=360-405, with increments of 5)

132 half-cut cells: JKMxxxM-6RL3-S-B-V(xxx=360-405, with increments of 5)

132 half-cut cells: JKMSxxxM-6RL3-B-V-TI(xxx=360-405, with increments of 5)

132 half-cut cells: JKMxxxN-6RL3-B-V(xxx=360-405, with increments of 5)

132 half-cut cells: JKMSxxxN-6RL3-B-V-TI(xxx=360-405, with increments of 5)

132 half-cut cells: JKMxxxN-6RL3-S-B-V(xxx=360-405, with increments of 5)

132 half-cut cells: MMxxx-6RLC-ABV(xxx=360-405, with increments of 5) 132 half-cut cells: SMMxxx-6RLC-ABV-TI(xxx=360-405, with increments of 5)

132 half-cut cells: MMxxx-6RLC-BBV(xxx=355-400, with increments of 5)

132 half-cut cells: MMxxx-6RLC-MBV(xxx=360-400, with increments of 5)

132 half-cut cells: SMMxxx-6RLC-MBV-TI(xxx=360-400, with increments of 5)

132 half-cut cells: MNxxx-6RLC-ABV(xxx=360-405, with increments of 5) 132 half-cut cells: SMNxxx-6RLC-ABV-TI(xxx=360-405, with increments of 5)

132 half-cut cells: MNxxx-6RLC-BBV(xxx=355-400, with increments of 5)

132 half-cut cells: MNxxx-6RLC-MBV(xxx=360-400, with increments of 5) 132 half-cut cells: SMNxxx-6RLC-MBV-TI(xxx=360-400, with increments of 5)

132 half-cut cells: JKMxxxM-66H-MBB-V(xxx=340-390, with increments of 5)

ORD CERT GmbH Certification Body

Consumer Products



Aktenzeichen: / File reference: PVP07013/21P-02

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132 half-cut cells: JKMSxxxM-66H-MBB-V-MX3(xxx=370-390, with increments of 5)

120 half-cut cells: JKMxxxM-60H-V(xxx=210-375, with increments of 5) 120 half-cut cells: JKMSxxxM-60H-V-TI(xxx=210-375, with increments of 5)

120 half-cut cells: JKMSxxxM-60HL-V-TI(xxx=270-350, with increments of 5)

120 half-cut cells: JKMSxxxM-60HBL-V-TI(xxx=270-350, with increments of 5)

120 half-cut cells: JKMxxxM-60HL-V(xxx=210-375, with increments of 5) 120 half-cut cells: JKMxxxM-60HL-V-Q(xxx=270-350, with increments of 5)

120 half-cut cells: JKMSxxxM-60HL-V-TI-Q(xxx=270-350, with increments of 5)

120 half-cut cells: JKMSxxxM-60H-MBB-V-MX3(xxx=320-355, with increments of 5)

120 half-cut cells: MMxxx-60HLA-BBV(xxx=315-355, with increments of 5)

120 half-cut cells: SMMxxx-60HLA-MBV-MX3(xxx=210-350, with increments of 5)

120 half-cut cells: JKMSxxxM-60HL-V-MX3-Q(xxx=270-340, with increments of 5)

120 half-cut cells: MNxxx-60HLA-BBV-MBB(xxx=330-350, with increments of 5)

120 half-cut cells: MM-60HLA-BBV-MBB(xxx=320-335, with increments of 5)

120 half-cut cells: SMMxxx-60HLA-ABV-MX3(xxx=210-350, with increments of 5)

120 half-cut cells: JKMxxxM-60HLM-V(xxx=350-375, with increments of 5)

120 half-cut cells: JKMSxxxM-60HLM-V-MX3(xxx=350-385, with increments of 5)

120 half-cut cells: JKMxxxM-60HB-V(xxx=210-375, with increments of 5) 120 half-cut cells :JKMSxxxM-60HB-V-TI(xxx=210-375, with increments of 5)

120 half-cut cells: JKMxxxM-60HBL-V(xxx=210-375, with increments of 5)

120 half-cut cells: JKMxxxM-60H-TV(xxx=300-375, with increments of 5 120 half-cut cells: JKMxxxM-60HL-TV(xxx=300-375, with increments of 5)

120 half-cut cells: JKMxxxM-60HL-TV-Q(xxx=315-355, with increments of 5)

120 half-cut cells: JKMxxxN-60H-TV(xxx=315-375, with increments of 5)

RD CERT GmbH **Certification Body Consumer Products**



Aktenzeichen: / File reference: PVP07013/21P-02

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120 half-cut cells: JKMxxxN-60HL-TV(xxx=315-375, with increments of 5)

120 half-cut cells: JKMSxxxM-60HB-V-MX3(xxx=270-340, with increments of 5)

120 half-cut cells: JKMSxxxM-60H-V-MX3(xxx=210-350, with increments of 5)

120 half-cut cells: JKMSxxxM-60HB-V-MX3(xxx=210-350, with increments of 5)

120 half-cut cells: JKMSxxxM-60HL-V-MX3(xxx=210-350, with increments of 5)

120 half-cut cells: JKMSxxxM-60HBL-V-MX3(xxx=270-340, with increments of 5)

120 half-cut cells: JKMxxxM-60H-MBB-V(xxx=320-365, with increments of 5)

120 half-cut cells: JKMxxxM-60H-MBB-TV(xxx=320-360, with increments of 5)

120 half-cut cells: JKMSxxxM-60H-MBB-V-TI(xxx=310-365, with increments of 5)

120 half-cut cells: JKMSxxxN-60H-MBB-V-TI(xxx=320-375, with increments of 5)

120 half-cut cells: JKMxxxN-60H-MBB-TV(xxx=330-370, with increments of 5)

120 half-cut cells: JKMxxxN-60H-MBB-V(xxx=320-350, with increments of 5)

120 half-cut cells: JKMxxxN-60H-MBB-B-V(xxx=315-330, with increments of 5)

120 half-cut cells: JKMSxxxN-60H-MBB-B-V-TI(xxx=315-330, with increments of 5)

120 half-cut cells: JKMXXXM-6TL3-V(xxx=335-380, with increments of 5) 120 half-cut cells: JKMSxxxM-6TL3-V-TI(xxx=335-380, with increments of 5)

120 half-cut cells: JKMXXXM-6TL3-S-V(xxx=335-380, with increments of 5)

120 half-cut cells: JKMSXXXM-6TL3-V-MX3(xxx=335-380, with increments of 5)

120 half-cut cells: JKMxxxM-6TL3-B-V(xxx=320-365, with increments of 5)

120 half-cut cells: JKMxxxM-6TL3-S-B-V(xxx=320-365, with increments of 5)

120 half-cut cells: JKMSxxxM-6TL3-B-V-TI(xxx=320-365, with increments of 5)

120 half-cut cells: JKMxxxN-6TL3-B-V(xxx=320-365, with increments of 5)



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120 half-cut cells: JKMxxxN-6TL3-S-B-V(xxx=320-365, with increments of 5)

120 half-cut cells: JKMSxxxN-6TL3-B-V-TI(xxx=320-365, with increments of 5)

120 half-cut cells: JKMxxxN-6TL3-V(xxx=335-375, with increments of 5) 120 half-cut cells: JKMSxxxN-6TL3-V-TI(xxx=335-375, with increments of 5)

120 half-cut cells: JKMSxxxN-6TL3-V-MX3(xxx=335-375, with increments of 5)

120 half-cut cells: JKMSXXXM-6TL3-V-TI(xxx=335-380, with increments of 5)

120 half-cut cells: JKMXXXM-6TL3-TV(xxx=325-365, with increments of 5)

120 half-cut cells: JKMXXXM-6TL3-S-TV(xxx=325-365, with increments of 5)

120 half-cut cells: JKMxxxN-6TL3-TV(xxx=325-380, with increments of 5) 120 half-cut cells: JKMxxxN-6TL3-S-TV(xxx=325-380, with increments of 5)

120 half-cut cells: MMxxx-6TLC-ABV(xxx=320-365, with increments of 5) 120 half-cut cells: SMMxxx-6TLC-ABV-TI(xxx=320-365, with increments of 5)

120 half-cut cells: MMxxx-6TLC-BBV(xxx=325-365, with increments of 5) 120 half-cut cells: MMxxx-6TLC-MBV(xxx=335-365, with increments of 5)

120 half-cut cells: SMMxxx-6TLC-MBV-TI(xxx=335-365, with increments of 5)

120 half-cut cells: MNxxx-6TLC-ABV(xxx=320-365, with increments of 5) 120 half-cut cells: SMNxxx-6TLC-ABV-TI(xxx=320-365, with increments of 5)

120 half-cut cells: MNxxx-6TLC-BBV(xxx=325-365, with increments of 5) 120 half-cut cells: MNxxx-6TLC-MBV(xxx=335-365, with increments of 5)

120 half-cut cells: SMNxxx-6TLC-MBV-TI(xxx=335-365, with increments of 5)

120 half-cut cells: MMxxx-60HLA-ABV(xxx=270-350, with increments of 5)

120 half-cut cells: MMxxx-60HLA-BBV-MBB(xxx=320-335, with increments of 5)

120 half-cut cells: MMxxx-60HLA-MBV(xxx=270-350, with increments of 5)

120 half-cut cells: MMxxx-60HLA-MBV-MBB(xxx=320-355, with increments of 5)

120 half-cut cells: SMMxxx-60HLA-MBV-TI(xxx=270-350, with increments of 5)

120 half-cut cells: SMMxxx-60HLA-MBV-MBB-TI(xxx=320-355, with increments of 5)

ORD CERT GmbH



1500V

Class A

Class II

15A or 20A or 25A

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Aktenzeichen: / File reference: PVP07013/21P-02

120 half-cut cells: SMMxxx-60HLA-ABV-TI(xxx=270-350, with increments of 5)

120 half-cut cells: MNxxx-60HLA-ABV-MBB(xxx=315-330, with increments of 5)

120 half-cut cells: SMNxxx-60HLA-ABV-MBB-TI(xxx=315-330, with increments of 5)

120 half-cut cells: MNxxx-60HLA-MBV-MBB(xxx=320-350, with increments of 5)

120 half-cut cells: SMNxxx-60HLA-MBV-MBB-TI(xxx=320-350, with increments of 5)

120 half-cut cells: MMxxx-60HLM-MBV(xxx=350-385, with increments of 5)

120 half-cut cells: MM-60HLA-MBV-MBB(xxx=320-355, with increments of 5)

120 half-cut cells: SMM-60HLA-MBV-MBB-TI (xxx=320-355, with increments of 5)

Maximum system voltage:

Fuse rating:

Application class:

Electrical protection class:

Module types:

PV Modules with 7" Mono-crystalline Silicon Half-cut Solar Cells

156 half-cut cells: JKMxxxM-7RL4-V(xxx=535-590, with increments of 5) 156 half-cut cells: JKMxxxM-7RL4-B-V(xxx=540-575, with increments of 5)

156 half-cut cells: JKMxxxM-7RL4-TV(xxx=525-590, with increments of 5)

156 half-cut cells: JKMxxxM-7RL4-TV-J(xxx=525-590, with increments of 5)

156 half-cut cells: JKMxxxM-7RL4-V-J(xxx=535-590, with increments of 5)

156 half-cut cells: JKMxxxN-7RL4-V(xxx=535-590, with increments of 5)

156 half-cut cells: JKMxxxN-7RL4-B-V(xxx=540-575, with increments of 5)

156 half-cut cells: JKMxxxN-7RL4-TV(xxx=520-585, with increments of 5)

156 half-cut cells: MMxxx-7RLD-MBV(xxx=535-590, with increments of 5)

156 half-cut cells: MNxxx7RLD-MBV (xxx=535-590, with increments of 5) 156 half-cut cells: MNxxx7RLD-BBV (xxx=520-585, with increments of 5) 156 half-cut cells: JKMxxxM-78HL4-V (xxx=565-605, with increments of 5)

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Aktenzeichen: / File reference: PVP07013/21P-02

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156 half-cut cells: JKMxxxM-78HL4-S-V (xxx=565-605, with increments of 5)

156 half-cut cells: MMxxx-78HLD-MBV (xxx=565-605, with increments of 5)

156 half-cut cells: JKMxxxM-78HL4-TV (xxx=555-595, with increments of 5)

156 half-cut cells: JKMxxxM-78HL4-S-TV (xxx=555-595, with increments of 5)

144 half-cut cells: JKMxxxM-7TL4-V(xxx=495-570, with increments of 5) 144 half-cut cells: JKMxxxM-7TL4-B-V(xxx=495-530, with increments of 5)

144 half-cut cells: JKMxxxM-7TL4-V-J(xxx=495-570, with increments of 5)

144 half-cut cells: JKMxxxM-7TL4-TV(xxx=465-570, with increments of 5)

144 half-cut cells: JKMxxxM-7TL4-TV-J(xxx=460-570, with increments of 5)

144 half-cut cells: JKMxxxN-7TL4-V(xxx=495-570, with increments of 5) 144 half-cut cells: JKMxxxN-7TL4-B-V(xxx=495-530, with increments of 5)

144 half-cut cells: JKMxxxN-7TL4-TV(xxx=480-570, with increments of 5) 144 half-cut cells: JKMxxxM-72HL4-V(xxx=460-555, with increments of 5)

144 half-cut cells: JKMxxxM-72HL4-S-V(xxx=460-555, with increments of 5)

144 half-cut cells: JKMxxxM-72HL4-B-V(xxx=510-535, with increments of 5)

144 half-cut cells: JKMxxxM-72HL4-S-B-V(xxx=510-535, with increments of 5)

144 half-cut cells: JKMxxxN-72HL4-V(xxx=485-555, with increments of 5) 144 half-cut cells: JKMxxxN-72HL4-B-V(xxx=510-535, with increments of 5)

144 half-cut cells: JKMxxxM-72HL4-V-J(xxx=460-555, with increments of 5)

144 half-cut cells: JKMxxxM-72HL4-S-V-J(xxx=460-555, with increments of 5)

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

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

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

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

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144 half-cut cells: JKMxxxN-72HL4-TV(xxx=480-545, with increments of 5)

144 half-cut cells: JKMxxxN-72HL4-V(xxx=460-555, with increments of 5) 144 half-cut cells: MMxxx-72HLD-MBV(xxx=475-555, with increments of 5)

144 half-cut cells: MMxxx-7TLD-MBV(xxx=495-540, with increments of 5)

144 half-cut cells: MNxxx-72HLD-MBV (xxx=485-555, with increments of 5)

144 half-cut cells: MNxxx72HLD-BBV(xxx=480-545, with increments of 5) 144 half-cut cells: MNxxx7TLD-MBV (xxx=495-540, with increments of 5)

144 half-cut cells: MNxxx7TLD-BBV (xxx=480-540, with increments of 5) 132 half-cut cells: JKMxxxM-66HL4-V(xxx=425-505, with increments of 5)

132 half-cut cells: JKMxxxM-66HL4-S-V(xxx=425-505, with increments of 5)

132 half-cut cells: JKMxxxM-66HL4-B-V(xxx=465-490, with increments of 5)

132 half-cut cells: JKMxxxM-66HL4-S-B-V(xxx=465-490, with increments of 5)

132 half-cut cells: JKMxxxN-66HL4-V(xxx=445-505, with increments of 5) 132 half-cut cells: JKMxxxN-66HL4-B-V(xxx=465-490, with increments of 5)

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

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

132 half-cut cells: JKMxxxN-66HL4-TV(xxx=440-495, with increments of 5)

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

132 half-cut cells: JKMxxxM-6RL4-V(xxx=455-495, with increments of 5) 132 half-cut cells: JKMxxxM-6RL4-B-V(xxx=455-485, with increments of 5)

132 half-cut cells: JKMxxxM-6RL4-TV(xxx=445-495, with increments of 5)

132 half-cut cells: JKMxxxN-6RL4-V(xxx=455-495, with increments of 5) 132 half-cut cells: JKMxxxN-6RL4-B-V(xxx=455-485, with increments of

5) 132 half-cut cells: JKMxxxN-6RL4-TV(xxx=440-495, with increments of

5) 132 half-cut cells: MMxxx-66HLD-MBV(xxx=440-505, with increments of 5)

132 half-cut cells: MMxxx-6RLD-MBV(xxx=455-495, with increments of 5)



Anlage 2 zum Zertifikat Nr.: / Annex 2 to Certificate No.: 44 780 20 406749 - 120R10A6M13

Aktenzeichen: / File reference: PVP07013/21P-02

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132 half-cut cells: MNxxx-66HLD-MBV(xxx=445-505, with increments of 5)

132 half-cut cells: MNxxx66HLD-BBV(xxx=440-505, with increments of 5) 132 half-cut cells: MNxxx6RLD-MBV(xxx=455-495, with increments of 5)

132 half-cut cells: MNxxx6RLD-BBV(xxx=440-495, with increments of 5)

120 half-cut cells: JKMxxxM-60HL4-V(xxx=385-460, with increments of 5)

120 half-cut cells: JKMxxxM-60HL4-S-V(xxx=385-460, with increments of 5)

120 half-cut cells: JKMxxxM-60HL4-B-V(xxx=425-445, with increments of 5)

120 half-cut cells: JKMxxxM-60HL4-S-B-V(xxx=425-445, with increments of 5)

120 half-cut cells: JKMxxxN-60HL4-V(xxx=405-460, with increments of 5) 120 half-cut cells: JKMxxxN-60HL4-B-V(xxx=425-455, with increments of 5)

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

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

120 half-cut cells: JKMxxxN-60HL4-TV(xxx=400-450, with increments of 5)

120 half-cut cells: JKMxxxN-60HL4-V(xxx=385-465, with increments of 5) 120 half-cut cells: JKMxxxM-6TL4-V(xxx=415-450, with increments of 5)

120 half-cut cells: JKMxxxM-6TL4-B-V(xxx=415-440, with increments of 5)

120 half-cut cells: JKMxxxM-6TL4-TV(xxx=385-450, with increments of 5)

120 half-cut cells: JKMxxxN-6TL4-V(xxx=415-450, with increments of 5) 120 half-cut cells: JKMxxxN-6TL4-B-V(xxx=415-440, with increments of 5)

120 half-cut cells: JKMxxxN-6TL4-TV(xxx=400-450, with increments of 5) 120 half-cut cells: MMxxx-60HLD-MBV(xxx=400-460, with increments of 5)

120 half-cut cells: MMxxx-6TLD-MBV(xxx=415-450, with increments of 5) 120 half-cut cells: MNxxx-60HLD-MBV(xxx=405-460, with increments of 5)

120 half-cut cells: MNxxx60HLD-BBV (xxx=400-450, with increments of 5)

120 half-cut cells: MNxxx6TLD-MBV(xxx=415-450, with increments of 5) 120 half-cut cells: MNxxx6TLD-BBV(xxx=400-450, with increments of 5) 108 half-cut cells: JKMxxxM-5RL4-TV(xxx=365-405, with increments of 5)

108 half-cut cells: JKMxxxM-5RL4-V(xxx=345-405, with increments of 5)

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TÜV NORD CERT GmbH Certification Body Consumer Products



Aktenzeichen: / File reference: PVP07013/21P-02

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108 half-cut cells: JKMxxxM-5RL4-B-V(xxx=375-395, with increments of 5)

108 half-cut cells: JKMxxxN-5RL4-V(xxx=375-405, with increments of 5) 108 half-cut cells: JKMxxxN-5RL4-B-V(xxx=375-395, with increments of 5)

108 half-cut cells: JKMxxxN-5RL4-TV(xxx=365-405, with increments of 5)

108 half-cut cells: JKMxxxM-54HL4-V(xxx=345-420, with increments of 5)

108 half-cut cells: JKMxxxM-54HL4-S-V(xxx=345-420, with increments of 5)

108 half-cut cells: JKMxxxM-54HL4-B-V(xxx=380-400, with increments of 5)

108 half-cut cells: JKMxxxM-54HL4-S-B-V(xxx=380-400, with increments of 5)

108 half-cut cells: JKMxxxM-54HL4-TV(xxx=345-410, with increments of 5)

108 half-cut cells: JKMxxxM-54HL4-S-TV(xxx=345-410, with increments of 5)

108 half-cut cells: JKMxxxN-54HL4-V(xxx=365-415, with increments of 5) 108 half-cut cells: JKMxxxN-54HL4-B-V(xxx=380-400, with increments of 5)

108 half-cut cells: JKMxxxN-54HL4-TV(xxx=360-405, with increments of 5)

108 half-cut cells: MMxxx-54HLD-MBV(xxx=360-415, with increments of 5)

108 half-cut cells: MMxxx-5RLD-MBV(xxx=375-405, with increments of 5)

108 half-cut cells: MNxxx-54HLD-MBV(xxx=365-415, with increments of 5)

108 half-cut cells: MNxxx54HLD-BBV (xxx=360-405, with increments of 5)

108 half-cut cells: MNxxx5RLD-MBV(xxx=375-405, with increments of 5) 108 half-cut cells: MNxxx5RLD-BBV(xxx=365-405, with increments of 5) 1500V

25A or 30A

Class A

Class II

Module types:

Fuse rating:

Application class:

Maximum system voltage:

Electrical protection class:

TÜV NORD CERT GmbH Certification Body Consumer Products PV Modules with 8" Mono-crystalline Silicon Half-cut Solar Cells 132 half-cut cells: JKxxxM-66R5-MWV(xxx=630-665, with increments of 5)



2021-10-09

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Anlage 2 zum Zertifikat Nr.: / Annex 2 to Certificate No.: 44 780 20 406749 - 120R10A6M13 Aktenzeichen: / File reference: PVP07013/21P-02

> 132 half-cut cells: JKxxxM-66H5-MWV(xxx=635-670, with increments of 5) 132 half-cut cells: JKxxxM-66H5-BTV (xxx=630-665, with increments of 5) 1500V 30A Class A Class II

Remark:

Fuse rating:

Application class:

Maximum system voltage:

Electrical protection class:

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

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TÜV NORD CERT GmbH Certification Body Consumer Products



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Tel: (86) 21-6061 1799 Fax: (86) 21-6876 1115

Disclaimer: IEC 61215/IEC 61730 certificates

Tiger Monofacial 66 Half Cell -1500V

Code: JKM***M-6RL3-V

The following pages represent an extraction from the original certificate (s).

For the case of **Tiger Monofacial 66 Half Cell -1500V** (**JKM***M-6RL3-V**), the following pages applied:

Certificate Nr.	Certificate Page (s)	Tiger Monofacial 66 Half Cell -1500V
PV 50416412	0001-02 (original annex)	Certification validity until 16 Sep 2023. (page 0002) Fire Rating: Class C (page 0002)
PV 50416412	0015-0016	JKM***M-6RL3-V Power range: 360-395 W (Page 0015) Remark on Fire Rating: Class C (page 0016)
PV 50416412	0019-0020 (+updated annex*) *List of factories: Rev 2	JKM***M-6RL3-V Power range: 400 W (Page 0020) Remark on Fire Rating: Class C (page 0020)
PV 50416412	0037-0044 + Latest Annex Update: List of factories: Rev 8	JKM***M-6RL3-V Power range: 405-415 W (Page 0042)

The institute TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90341 Nürnberg has tested and certified the product(s).

Note: Each individual page is a valid document, including the certificate number, signature, and stamp from the testing institute.

If you required the complete document, please contact us for further support.

Europe Technical Support

Zertifikat	Certificate		
Zertifikat Nr. <i>Certificate No.</i> PV 50416412	Blatt Sheet 0001	TÜV	/Rheinland
hr Zeichen Client Reference	Unser Zeichen Our Referend 01-LYM-50173415 0	0	ate of Issue ay/mo/yr)
Genehmigungsinhaber License H Jinko Solar Co., Lto No. 1 Jinko Road Shangrao Economic De Jiangxi Province 334 P. R. China	l. Refe of t velopment Zone	gungsstätte <i>Manufacturing Plant</i> er to latest revision the annex list of facto	ories
rüfzeichen Test Mark	Geprüft nach Tested acc.	to	
IEC 61215 IEC 61730 Regular Production Surveillance VVRheinland CERTIFIED Www.tuv.com ID 1419061546	IEC 61215-1:2016 IEC 61215-1-1:20 IEC 61215-2:2016 IEC 61730-1:2016 IEC 61730-2:2016	16	
ertifiziertes Produkt (Geräteider ertified Product (Product Id	ntifikation) lentification)	Lizenzentgelte - License Fee - Un	
V Module			
<pre>KMSxxxM-72-V; JKMSxxxM- xxx=335-385, in steps c KMxxxM-60-V; JKMxxxM-60 KMSxxxM-60-V; JKMSxxxM- xxx=270-320, in steps c ith 6" mono half-cut c- KMxxxM-72H-V; JKMxxxM-7 xxx=335-385, in steps c KMxxxM-60H-V; JKMxxxM-6 xxx=270-320, in steps c ith 6" poly c-Si cells: KMxxxPP-72-V; JKMxxxPP- KMSxxxPP-72-V-J (xxx=32 KMxxxPP-60-V; JKMxxxPP- KMSxxxPP-60-V-J (xxx=26)</pre>	<pre>(Plus)-V; JKMxxxM-72L-V; 72-V-J f 5, 72 cells) (Plus)-V; JKMxxxM-60L-V; 60-V-J f 5, 60 cells) Si cells: 2HL-V f 5, 144 cells) 0HL-V f 5, 120 cells) 72(Plus)-V; JKMSxxxPP-72- 0-355, in steps of 5, 72 60(Plus)-V; JKMSxxxPP-60-</pre>	cells) V;	
ontinued on Page 2 m Zertifikat liegt unsere Prüf- und Zertifiz s Produkt entspricht den o.g. Anforderung is certificate is based on our Testing and C fills above mentioned requirements, the pro	erungsordnung zugrunde	UVRheinland <i>UVRheinland</i> <i>Tifizierungsstelle</i> <i>Tifizierungsstelle</i>	_
	ıbH, Tillystraße 2, 90431 Nürnberg		

Zertifikat	Certificate	R.
Zertifikat Nr. Certificate No. PV 50416412	Blatt Sheet 0002	TÜVRheinland
Ihr Zeichen Client Reference L.L.F	Unser Zeichen <i>Our Reference</i> 01-LYM-50173415 001	AusstellungsdatumDate of Issue17.09.2018(day/mo/yr)
Genehmigungsinhaber License He Jinko Solar Co., Ltd No. 1 Jinko Road Shangrao Economic Dev Jiangxi Province 3341 P. R. China	Refer to of the a velopment Zone	itte Manufacturing Plant latest revision nnex list of factories
Früfzeichen Test Mark Image: Construction Certified	Geprüft nach Tested acc. to IEC 61215-1:2016 IEC 61215-1-1:2016 IEC 61215-2:2016 IEC 61730-1:2016 IEC 61730-2:2016	
Certifiziertes Produkt (Geräteiden Certified Product (Product Ide		Lizenzentgelte - Einheit License Fee - Unit
V Module		
Continuation of Page 1		4
With 6" poly half-cut c-8 JKMxxxPP-72H-V (xxx=330-3 JKMxxxPP-60H-V (xxx=260-3	i cells: 80, in steps of 5, 144 cells) 15, in steps of 5, 120 cells)	
Remarks: Class II acc. to IEC 6114 Max. System Voltage: up t Fire Rating: Class C Design Load/ Safety Facto		
regulations. Any change of or processing may require qualification tests in or	tarily according to technical f the design, materials, comp the repetition of some of th der to retain type approval. until 16 September 2023.	onents e
em Zertifikat liegt unsere Prüf- und Zertifizie as Produkt entspricht den o.g. Anforderunge bis certificate is based on our Testing ad C	n, die Herstellung wird überwacht	
This certificate is based on our Testing and Ce adfills above mentioned requirements, the pro- FÜV Rheinland LGA Products Gm Fel.: +49 221 806-1371 e-mail: cert-validity(ax: +49 221 806-3935 http://www.tuv.com/	duction is subject to surveillance.	BiplIng. (TU) G. Reimann

10/020 d 04 08 🐵

Anlage Fertigungsstättenliste /Attachment List of Factories



PV 50416412 0001

1

3

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7

Zhejiang Jinko Solar Co., Ltd. Yuan Xi Road Technical Functional Zone Yuan Hua Town Haining, Zhejiang 314416, P. R. China

Jinko Solar Co., Ltd. No. 1 Jinko Road Shangrao Economic Development Zone Jiangxi Province 334100 P. R. China

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JINKO SOLAR TECHNOLOGY SDN. BHD. 2481,Tingkat Perusahaan 4 Kawasan Perusahaan Bebas Perai 13600 Perai, Penang Malaysia

Zhejiang Jinko Solar Co., Ltd. No.35 Haishi Road, Jianshan New District, Haining City, Zhejiang Province. 314415 P. R. China

JINKO SOLAR TECHNOLOGY SDN. BHD.(P2) 2522, Lorong Perusahaan 4 Kawasan Perusahaan Bebas Perai, Phase 1, 13600 Perai, Penang, Malaysia JINKO SOLAR TECHNOLOGY SDN. BHD.(P3) Lot 10085, Plot C & D Jalan Perusahaan, Mukim 1 13600 Seberang Perai Tengah, Penang Malaysia

Yuhuan Jinkosolar Co., Ltd At the intersection of Shanghai Road and Taizhou Road in the third issue of Yuhuan economic development Zone, Zhejiang province 317600, P. R. China

Jiangsu Jinko Day Sheng Solar Co.,Ltd. No. 228, Yuesheng North Road, Fanshui Town,Industrial concentration area,Baoying County, Yangzhou Jiangsu Province 225819, P. R. China



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

9



This annex replaces the previous annex dated

Datum / Date 17.09.2018

Dipl.-Ing. (TU) G. Reimann

Certificate Zertifikat Rheinland Zertifikat Nr. Certificate No. **Blatt** Sheet 0015 PV 50416412 Date of Issue Unser Zeichen Our Reference Ausstellungsdatum Ihr Zeichen Client Reference (day/mo/yr) 17.02.2020 L.L.F 01-LCH-50173415 017 Fertigungsstätte Manufacturing Plant Genehmigungsinhaber License Holder Refer to latest revision Jinko Solar Co., Ltd. of the annex list of factories No. 1 Jinko Road Shangrao Economic Development Zone Jiangxi Province 334100 P. R. China Geprüft nach Tested acc. to Prüfzeichen Test Mark IEC 61215-1:2016 IEC 61215 IEC 61215-1-1:2016 IEC 61730 Regular Production 61215-2:2016 IEC Surveillance IEC 61730-1:2016 Ġ TÜVRheinland IEC 61730-2:2016 www.tuv.com CERTIFIED EN 61215-1:2016 ID 1419061546 EN 61215-2:2017 EN 61215-1-1:2016 EN IEC 61730-1:2018 EN IEC 61730-2:2018 Lizenzentgelte - Einheit Zertifiziertes Produkt (Geräteidentifikation) License Fee - Unit (Product Identification) **Certified Product** PV Module 4 Same as Page 1 - 14 In addition: Type Designation: With 1/2 cut of mono c-Si cells: JKMxxxM-7RL3-V; JKMxxxM-7RL3-V-J (xxx=430-470, in steps of 5, 156 cells) JKMxxxM-6RL3-V; JKMxxxM-6RL3-V-J (xxx=360-395, in steps of 5, 132 cells) JKMxxxN-7RL3-V; JKMxxxN-7RL3-V-J (xxx=430-470, in steps of 5, 156 cells) JKMxxxN-6RL3-V; JKMxxxN-6RL3-V-J (xxx=360-395, in steps of 5, 132 cells) JKMxxxM-7RL3-TV; JKMxxxM-7RL3-TV-J (xxx=420-470, in steps of 5, 156 cells) Continued on Page 16

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde. Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht. This certificate is based on our Testing and Certification Regulation. The product fulfills above mentioned requirements, the production is subject to surveillance.

TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg Tel.: +49 221 806-1371 e-mail: cert-validity@de.tuv.com Fax: +49 221 806-3935 http://www.tuv.com/safety



Certificate Zertifikat Rheinland Blatt Sheet Zertifikat Nr. Certificate No. 0016 PV 50416412 Date of Issue Unser Zeichen Our Reference Ausstellungsdatum Ihr Zeichen Client Reference (day/mo/yr) 01-LCH-50173415 017 17.02.2020 L.L.F Fertigungsstätte Manufacturing Plant Genehmigungsinhaber License Holder Refer to latest revision Jinko Solar Co., Ltd. of the annex list of factories No. 1 Jinko Road Shangrao Economic Development Zone Jianqxi Province 334100 P. R. China Geprüft nach Tested acc. to Prüfzeichen Test Mark IEC 61215-1:2016 IEC 61215 IEC 61730 61215-1-1:2016 IEC Regular Production Surveillance 61215-2:2016 IEC IEC 61730-1:2016 TÜVRheinland IEC 61730-2:2016 www.tuv.com ID 1419061546 CERTIFIED EN 61215-1:2016 EN 61215-2:2017 EN 61215-1-1:2016 EN IEC 61730-1:2018 EN IEC 61730-2:2018 Lizenzentgelte - Einheit Zertifiziertes Produkt (Geräteidentifikation) License Fee - Unit **Certified Product** (Product Identification) PV Module Continuation of Page 15 4 JKMxxxM-6RL3-TV; JKMxxxM-6RL3-TV-J (xxx=355-395, in steps of 5, 132 cells) JKMxxxN-7RL3-TV; JKMxxxN-7RL3-TV-J (xxx=425-470, in steps of 5, 156 cells) JKMxxxN-6RL3-TV; JKMxxxN-6RL3-TV-J (xxx=355-395, in steps of 5, 132 cells) JKMxxxN-72H-MBB-V (xxx=385-425, in steps of 5, 144 cells) JKMxxxN-60H-MBB-V (xxx=320-350, in steps of 5, 120 cells) Remark: Fire Rating: Class C according to UL 790 4 Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde. Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht. Zertifizierungs elle This certificate is based on our Testing and Certification Regulation. The product fulfills above mentioned requirements, the production is subject to surveillance. TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg Tel.: +49 221 806-1371 e-mail: cert-validity@de.tuv.com Fax: +49 221 806-3935 http://www.tuv.com/safety

Dipl.-Ing. (FH) Tim Kirschner

10/020 d 04 08 @ TÜV TUEV and TUV are registered trademarks. Utilisation and application requires prior approval

Zertifikat	Certificate		A
Zertifikat Nr. <i>Certificate No.</i> PV 50416412	Blatt Sheet 0019		® TÜVRheinland
hr Zeichen Client Reference	Unser Zeichen Our Reference 01-Liedw-50173415 022	Ausstellungsdatum	Date of Issue (day/mo/yr)
.L.F	01-Liedw-501/3415 022	05.06.2020	(uuy/mo/yr)
Genehmigungsinhaber License H Jinko Solar Co., Lto No. 1 Jinko Road Shangrao Economic De 334100 Jiangxi P.R. China	Refer to of the a	tte <i>Manufacturing Plar</i> latest revisi nnex list of f	on
rüfzeichen Test Mark IEC 61215 IEC 61730 Regular Production Surveillance Www.tuv.com ID 1419061546	Geprüft nach Tested acc. to IEC 61215-1:2016 IEC 61215-1-1:2016 IEC 61215-2:2016 IEC 61730-1:2016 IEC 61730-2:2016 EN 61215-1:2016 EN 61215-2:2017 EN 61215-1-1:2016 EN IEC 61730-1:2018 EN IEC 61730-2:2018		
Zertifiziertes Produkt (Geräteide Certified Product (Product I	ntifikation) dentification)	Lizenzen License F	gelte - Einheit See - Unit
2V Module			
Same as Page 1-18			4
JKMxxxN-60H-MBB-B-V(xxx JKMxxxM-72HL-V-Q(xxx=3 JKMxxxM-60HL-V-Q(xxx=2 JKMSxxxM-72HL-V-MX3-Q (xxx=335-395, in steps JKMSxxXM-60HL-V-MX3-Q (xxx=270-340, in steps JKMxxXM-78H-V-Q(xxx=40 JKMxxXM-66H-V-Q(xxx=34 JKMxxXM-78H-TV-Q(xxx=4	=380-400, in steps of 5, 144 ce =315-330, in steps of 5, 120 ce 35-425, in steps of 5, 144 cell 70-350, in steps of 5, 120 cell of 5, 144 cells)	<pre>ells) s) s) s) s) s) s) s) s)</pre>	
Dem Zertifikat liegt unsere Prüf- und Zertif Das Produkt entspricht den o.g. Anforderur This certificate is based on our Testing and fulfills above mentioned requirements, the p TÜV Rheinland LGA Products G	ngen, die Herstellung wird überwacht. Certification Regulation. The product production is subject to surveillance.	Zertifizierun	4 gsstelle

Tel.: +49 221 806-1371 e-mail: cert-validity@de.tuv.com Fax: +49 221 806-3935 http://www.tuv.com/safety

10/020 d 04.08 © TÜV, TUEV and TUV are registered trademarks. Utilisation and application requires prior approval

Zertifikat	Certificate		4
Zertifikat Nr. <i>Certificate No.</i> PV 50416412	Blatt Sheet		RuvRheinland
Ihr Zeichen Client Reference L.L.F	Unser Zeichen Our Reference 01-Liedw-50173415 022	Ausstellungsdatum 05.06.2020	Date of Issue (day/mo/yr)
Genehmigungsinhaber License H Jinko Solar Co., Ltd No. 1 Jinko Road Shangrao Economic De 334100 Jiangxi P.R. China	. Refer to of the ar	te <i>Manufacturing Plan</i> latest revisionnex list of fa	on
Prüfzeichen Test Mark Image: Construction Structure TÜVRheinland CERTIFIED Www.tuv.com ID 1419061546	Geprüft nach Tested acc. to IEC 61215-1:2016 IEC 61215-2:2016 IEC 61730-1:2016 IEC 61730-2:2016 EN 61215-1:2016 EN 61215-1:2016 EN 61215-2:2017 EN 61215-1-1:2016 EN IEC 61730-1:2018 EN IEC 61730-2:2018		
Zertifiziertes Produkt (Geräteider Certified Product (Product Id	ntifikation) lentification)	Lizenzent License Fe	gelte - Einheit ee - Unit
JKMxxxM-6TL3-V (xxx=335- JKMxxxN-6TL3-TV (xxx=325 JKMxxxM-6TL3-TV (xxx=325 With 1/2 cut of mono c-5 JKMxxxN-7RL3-V; JKMxxXN- JKMxxxN-6RL3-V; JKMxxXM- JKMxxXM-6RL3-V; JKMxxXM- JKMxxXN-6RL3-V; JKMxxXM- JKMxxXN-6RL3-TV; JKMxxXM JKMxxXN-6RL3-TV; JKMxxXM	7RL3-V-J (xxx=475, 156 cells) 6RL3-V-J (xxx=400, 132 cells) 7RL3-V-J (xxx=475, 156 cells) 6RL3-V-J (xxx=400, 132 cells) 1-7RL3-TV-J (xxx=475, 156 cells) 1-6RL3-TV-J (xxx=475, 156 cells) 1-6RL3-TV-J (xxx=475, 156 cells) 1-6RL3-TV-J (xxx=400, 132 cells) cording to UL 790)))	4
Dem Zertifikat liegt unsere Prüf- und Zertifi Das Produkt entspricht den o.g. Anforderun This certificate is based on our Testing and fulfills above mentioned requirements, the p TÜV Rheinland LGA Products G Tel.: +49 221 806-1371 e-mail: cert-validit Fax: +49 221 806-3935 http://www.tuv.com	gen, die Herstellung wird überwacht. Certification Regulation. The product roduction is subject to surveillance. mbH, Tillystraße 2, 90431 Nürnberg y@de.tuv.com	111 00	Produces Contractions sstelle

Dipl.-Ing. (FH) Tim Kirschner

0/020 d 04.08 @ TUV, TUEV and TUV are registered trademarks. Utilisation and application requires prior approval



Anlage Fertigungsstättenliste /Attachment List of Factories



2

PV 50416412 0001

- 1 Laiwu Kelin Solar Power Co., Ltd. Room 101, No. 7 Zhenxing Road, Laiwu Economic Development Zone, Shandong Province 271100 Shandong P.R. China
- 3 Tongwei Solar (Hefei) Co., Ltd. No. 888 Changning Road, High-tech District Hefei 230088 Anhui P.R. China

5 Green Intelligent Photovoltaic Nantong Co. Ltd. No. 1 haiyue road, sutong science and technology industrial park Nantong city 226000 Jiangsu, P.R. China

7 GUANGDONG FIVE STAR SOLAR ENERGY CO. LTD. No.1, the 1st industry Zone Road, Liuchongwei, Wanjiang District Dongguan 523051 Guangdong P.R. China

/020 d 04.08 @ TUV, TUEV and TUV are registered trademarks. Utilisation and application requires prior appri

Anlagenrevision / Annex revision

2 HT SOLAR VIETNAM LIMITED COMPANY. F3-1 and F3-2 Workshop, Lot F3, Trang Due Industrial Park, a part of Dinh Vu Cat Hai Economic Zone, Hong Phong Commune, An Duong District, Hai Phong City Vietnam

- 4 Jinko Solar Technology (Haining) Co.,Ltd. No.89, Lianhong Road, Yuanhua town, Haining City, Jiaxing City, Zhejiang P.R. China
- 6 Nantong Pengneng Industrial Co., Ltd. Group 2, Jinqiao Village, Chahe Town, Rudong Country Nantong 226403 Jiangsu P.R. China
- 8 LDK SOLAR HIGH-TECH(NANCHANG) CO., LTD. No.1699 Tianxiang Road, Hi-Tech Industrial Development Zone, Nanchang Jiangxi, P.R. China



9 Jinko Solar (U.S.) Industries Inc. 4660 POW-MIA MEMORIAL PARKWAY, SUITE 200, JACKSONVILLE, FL 32221 USA

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

13 Jiangsu Focus New Energy Technology Co., Ltd. (Factory) No. 66, Lifa Avenue Development Zone, Hai'an County Nantong 226600 Jiangsu P.R. China

15 Jinko Solar Co.,Ltd. No.1,Yingbin Road, Economic Development Zone, Shangrao City 334100 Jiangxi P.R. China

10/020 d 04.08 @ TUV, TUEV and TUV are registered trademarks. Utilisation and application requires prior appro-

10 GK Solar Power Corp.,Ltd Yiyuan County, Zibo 256100 Shandong P.R. China

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

14 Jiangsu Jinko Day Sheng Solar Co.,Ltd. No. 228, Yuesheng North Road, Fanshui Town,Industrial concentration area,Baoying County, Yangzhou 225819 Jiangsu P.R. China

16 Yuhuan Jinkosolar Co., Ltd At the intersection of Shanghai Road and Taizhou Road in the third issue of Yuhuan economic development Zone, 317600 Zhejiang P.R. China



- 17 JINKO SOLAR TECHNOLOGY SDN. BHD.(P3) Lot 10085, Plot C & D Jalan Perusahaan, Mukim 1 13600 Seberang Perai Tengah, Penang Malaysia
- 19 Zhejiang Jinko Solar Co., Ltd. No.35 Haishi Road, Jianshan New District, Haining City, 314415 Zhejiang P.R. China
- 21 VINA SOLAR TECHNOLOGY CO., LTD Lot CN-03 Factory E12, Van Trung Industrial Park, Bac Giang Province Vietnam
- 23 Jinko Solar Co., Ltd. No. 1 Jinko Road Shangrao Economic Development Zone 334100 Jiangxi P.R. China

- 18 JINKO SOLAR TECHNOLOGY SDN. BHD.(P2) 2522, Lorong Perusahaan 4 Kawasan Perusahaan Bebas Perai, Phase 1 13600 Perai, Penang Malaysia
- 20 JINKO SOLAR TECHNOLOGY SDN. BHD. 2481,Tingkat Perusahaan 4 Kawasan Perusahaan Bebas Perai 13600 Perai, Penang Malaysia
- 22 Zhejiang Jinko Solar Co., Ltd. Yuan Xi Road Technical Functional Zone Yuan Hua Town Haining 314416 Zhejiang P.R. China

Dieser Anhang ersetzt den Vorgänger vom/ This annex replaces the previous annex dated

Datum / Date 17.09.2018

0/020 d 04.08 @ TUV, TUEV and TUV are registered trademarks. Utilisation and application requ



Zertifikat	Certificate	TÜVRheinland
Zertifikat Nr. Certificate No. PV 50416412	Blatt Sheet 0037	
Ihr Zeichen Client Reference L.L.F	Unser Zeichen Our Reference 01-VZJ-50173415 034	AusstellungsdatumDate of Issue30.12.2020(day/mo/yr)
Genehmigungsinhaber License H Jinko Solar Co., Ltd No. 1 Jinko Road Shangrao Economic Der 334100 Jiangxi P.R. China	. Refer to of the a	itte <i>Manufacturing Plant</i> o latest revision nnex list of factories
Prüfzeichen Test Mark IEC 61215 IEC 61730 Regular Production Surveillance Www.tuv.com ID 1419061546	Geprüft nach Tested acc. to IEC 61215-1:2016 IEC 61215-1-1:2016 IEC 61215-2:2016 IEC 61730-1:2016 IEC 61730-2:2016 EN 61215-1:2016 EN 61215-2:2017 EN 61215-1-1:2016 EN IEC 61730-1:2018 EN IEC 61730-2:2018	
	tifikation) entification)	Lizenzentgelte - Einheit License Fee - Unit
<u>PV Module</u> Same as Page 1 - 36 In addition: Type Designations: With % cut of mono c-Si	celle.	4
MMxxx-60HLM-MBV (xxx=350 JKMxxxN-72HL4-V (xxx=485 JKMxxxN-66HL4-V (xxx=445 JKMxxxN-60HL4-V (xxx=405 JKMxxxN-54HL4-V (xxx=365 JKMxxxN-72HL4-TV (xxx=48 JKMxxxN-66HL4-TV (xxx=44 JKMxxxN-60HL4-TV (xxx=40	cells: -455, in steps of 5, 144 cells -375, in steps of 5, 120 cells -555, in steps of 5, 144 cells -505, in steps of 5, 132 cells -460, in steps of 5, 120 cells -415, in steps of 5, 108 cells 0-545, in steps of 5, 144 cell 0-495, in steps of 5, 132 cell 0-450, in steps of 5, 120 cell	s) s) s) s)
		4

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde. Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht. This certificate is based on our Testing and Certification Regulation. The product fulfills above mentioned requirements, the production is subject to surveillance.

TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg Tel.: +49 221 806-1371 e-mail: cert-validity@de.tuv.com Fax: +49 221 806-3935 http://www.tuv.com/safety



Zertifikat	Certificate	A
Zertifikat Nr. <i>Certificate No.</i> PV 50416412	Blatt Sheet 0038	TÜVRheinland
Ihr Zeichen Client Reference L.L.F	Unser Zeichen Our Reference 01-VZJ-50173415 034	AusstellungsdatumDate of Issue30.12.2020(day/mo/yr)
Genehmigungsinhaber <i>License Ho</i> Jinko Solar Co., Ltd No. 1 Jinko Road Shangrao Economic Dev 334100 Jiangxi P.R. China	. Refer to l of the and	<i>Manufacturing Plant</i> Latest revision nex list of factories
Priifzeichen Test Mark IEC 61215 IEC 61730 Regular Production Surveillance Www.tuv.com ID 1419061546	Geprüft nach Tested acc. to IEC 61215-1:2016 IEC 61215-1-1:2016 IEC 61215-2:2016 IEC 61730-1:2016 IEC 61730-2:2016 EN 61215-1:2016 EN 61215-2:2017 EN 61215-1-1:2016 EN IEC 61730-1:2018 EN IEC 61730-2:2018	
Zertifiziertes Produkt (Geräteiden Certified Product (Product Id.		Lizenzentgelte - Einheit License Fee - Unit
		License Tee - Onu
JKMxxxN-7TL4-V (xxx=495- JKMxxxN-6RL4-V (xxx=455- JKMxxxN-6TL4-V (xxx=415- JKMxxxN-5RL4-V (xxx=375- JKMxxxN-7RL4-TV (xxx=520 JKMxxxN-7TL4-TV (xxx=480 JKMxxxN-6RL4-TV (xxx=440 JKMxxxN-6TL4-TV (xxx=400		4
In continuation of Page JKMxxxN-7RL4-V (xxx=535- JKMxxxN-7TL4-V (xxx=495- JKMxxxN-6RL4-V (xxx=455- JKMxxxN-6TL4-V (xxx=415- JKMxxxN-5RL4-V (xxx=375- JKMxxxN-7RL4-TV (xxx=520 JKMxxxN-7TL4-TV (xxx=480 JKMxxxN-6RL4-TV (xxx=440 JKMxxxN-6TL4-TV (xxx=400 JKMxxxN-5RL4-TV (xxx=365	37 590, in steps of 5, 156 cells) 540, in steps of 5, 144 cells) 495, in steps of 5, 132 cells) 450, in steps of 5, 120 cells) 405, in steps of 5, 108 cells) -585, in steps of 5, 156 cells) -540, in steps of 5, 144 cells) -495, in steps of 5, 132 cells) -450, in steps of 5, 120 cells)	

Tel.: +49 221 806-1371 e-mail: cert-validity@de.tuv.com Fax: +49 221 806-3935 http://www.tuv.com/safety

0/020 d 04.08 🐵

Dipl.-Ing. (FH) F. He

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Zertifikat	Certificate		A
Zertifikat Nr. Certificate No. PV 50416412	Blatt Sheet 0039		TÜV Rheinland
Ihr Zeichen Client Reference L.L.F	Unser Zeichen Our Reference 01-VZJ-50173415 034	Ausstellungsdatur 30.12.2020	n Date of Issue (day/mo/yr)
Genehmigungsinhaber License H Jinko Solar Co., Ltd No. 1 Jinko Road Shangrao Economic De 334100 Jiangxi P.R. China	. Refer to of the a	ätte <i>Manufacturing Pla</i> o latest revis annex list of	ion
Prüfzeichen Test Mark IEC 61215 IEC 61215 IEC 61730 Regular Production Surveillance www.tuv.com ID 1419061546	Geprüft nach Tested acc. to IEC 61215-1:2016 IEC 61215-1-1:2016 IEC 61215-2:2016 IEC 61730-1:2016 IEC 61730-2:2016 EN 61215-1:2016 EN 61215-2:2017 EN 61215-1-1:2016 EN IEC 61730-1:2018 EN IEC 61730-2:2018		
	tifikation) entification)		tgelte - Einheit Fee - Unit
JKMxxxM-66HL4-B-V (xxx=4 JKMxxxM-60HL4-B-V (xxx=4 JKMxxxM-54HL4-B-V (xxx=3 JKMxxxN-72HL4-B-V (xxx=5 JKMxxxN-66HL4-B-V (xxx=4 JKMxxxN-60HL4-B-V (xxx=4 JKMxxxN-54HL4-B-V (xxx=3 JKMxxxM-7RL4-B-V (xxx=54	38 10-535, in steps of 5, 144 ce 65-490, in steps of 5, 132 ce 25-445, in steps of 5, 120 ce 80-400, in steps of 5, 108 ce 10-535, in steps of 5, 144 ce 65-490, in steps of 5, 132 ce 25-445, in steps of 5, 120 ce 80-400, in steps of 5, 108 ce 0-575, in steps of 5, 156 cel 5-530, in steps of 5, 144 cel	11s) 11s) 11s) 11s) 11s) 11s) 11s)	4
			4

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde. Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht. This certificate is based on our Testing and Certification Regulation. The product fulfills above mentioned requirements, the production is subject to surveillance.

TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg Tel.: +49 221 806-1371 e-mail: cert-validity@de.tuv.com Fax: +49 221 806-3935 http://www.tuv.com/safety



Zertifikat	Certificate		R
Zertifikat Nr. Certificate No. PV 50416412	Blatt Sheet 0040	1	FÜV Rheinland
hr Zeichen Client Reference	Unser Zeichen Our Reference	Ausstellungsdatum	Date of Issue
J.L.F	01-VZJ-50173415 034	30.12.2020	(day/mo/yr)
	Holden Fertigungs	stätte Manufacturing Plan	ıt
Genehmigungsinhaber License Jinko Solar Co., Lt No. 1 Jinko Road Shangrao Economic D 334100 Jiangxi P.R. China	d. Refer to of the	annex list of f	on
T AL	Geprüft nach Tested acc. to		
Prüfzeichen Test Mark	IEC 61215-1:2016		
IEC 61730 Regular Production	IEC 61215-1-1:2016 IEC 61215-2:2016		
Surveillance	IEC 61730-1:2016		
TÜVRheinland	IEC 61730-2:2016		
CERTIFIED Www.tuv.com ID 1419061546	EN 61215-1:2016 EN 61215-2:2017		
	EN 61215-2:2017 EN 61215-1-1:2016		
	EN IEC 61730-1:2018		
	EN IEC 61730-2:2018		
Zertifiziertes Produkt (Gerätei	lentifikation)		tgelte - Einheit Fee - Unit
Certified Product (Produc	t Identification)	License 1	ee - Onn
PV Module			
			4
In continuation of Pag	455-485, in steps of 5, 132 c	ells)	
TKMXXXM-6TL4-B-V (XXX=	415-440, in steps of 5, 120 C	errs/	
TKMXXXM-5RL4-B-V (XXX=	375-395, in steps of 5, 108 c	ells)	
JKMxxxN-7RL4-B-V (xxx=	540-575, in steps of 5, 156 c	ells)	
JKMxxxN-7TL4-B-V (xxx=	495-530, in steps of 5, 144 c	ells) ells)	
JKMXXXN-6RL4-B-V (XXX=	455-485, in steps of 5, 132 c 415-440, in steps of 5, 120 c	ells)	
JKMXXXN-5RL4-B-V (XXX=	375-395, in steps of 5, 108 c	ells)	
Continued on Page 41			
conclined on ruge 11			4
			T
This contificate is based on our Testing	ertifizierungsordnung zugrunde. erungen, die Herstellung wird überwacht. and Certification Regulation. The product he production is subject to surveillance.	Zertifizieru	ngsstelle
		Laho	inter a

TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg Tel.: +49 221 806-1371 e-mail: cert-validity@de.tuv.com Fax: +49 221 806-3935 http://www.tuv.com/safety

0/020 d 04.08 🛞 TÜV, TUEV and TUV are registered trademarks. Ut



Zertifikat	Certificate	-	ÜVRheinland
Zertifikat Nr. Certificate No. PV 50416412	Blatt Sheet 0041	-	OVALIEIMand
hr Zeichen Client Reference	Unser Zeichen Our Reference 01-VZJ-50173415 034	Ausstellungsdatum 30.12.2020	Date of Issue (day/mo/yr)
Genehmigungsinhaber License Ho Jinko Solar Co., Ltd. No. 1 Jinko Road Shangrao Economic Dev 334100 Jiangxi P.R. China	Refer to of the a	itte <i>Manufacturing Plan</i> latest revisionnex list of fa	on
Prüfzeichen Test Mark IEC 61215 IEC 61730 Regular Production Surveillance Www.tuv.com ID 1419061546	Geprüft nach Tested acc. to IEC 61215-1:2016 IEC 61215-2:2016 IEC 61215-2:2016 IEC 61730-1:2016 IEC 61730-2:2016 EN 61215-1:2016 EN 61215-2:2017 EN 61215-1-1:2016 EN IEC 61730-1:2018 EN IEC 61730-2:2018		
	tifikation) entification)	Lizenzent License F	gelte - Einheit <i>ee - Unit</i>
JKMxxxM-6TL4-V (xxx=445-	cells: 7RL4-V-J of 5, 156 cells) 7TL4-V-J of 5, 144 cells) 495, in steps of 5, 132 cells 450, in steps of 5, 120 cells 405, in steps of 5, 108 cells 1-7RL4-TV-J of 5, 156 cells) 1-7TL4-TV-J)	4

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde. Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht. This certificate is based on our Testing and Certification Regulation. The product fulfills above mentioned requirements, the production is subject to surveillance.

TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg Tel.: +49 221 806-1371 e-mail: cert-validity@de.tuv.com Fax: +49 221 806-3935 http://www.tuv.com/safety



4

Zertifikat	Certificate	-	TÜVRheinland
Zertifikat Nr. Certificate No. PV 50416412	Blatt Sheet 0042	<u>-</u>	UVRNeimand
Ihr Zeichen Client Reference	Unser Zeichen Our Reference	Ausstellungsdatum	Date of Issue
L.L.F	01-VZJ-50173415 034	30.12.2020	(day/mo/yr)
Genehmigungsinhaber License Ho Jinko Solar Co., Ltd. No. 1 Jinko Road Shangrao Economic Dev 334100 Jiangxi P.R. China	Refer to of the ar	te <i>Manufacturing Plan</i> latest revisionnex list of fa	on
Prüfzeichen Test Mark ICC 61215 IEC 61730 Regular Production Surveillance Www.tuv.com ID 1419061546	Geprüft nach Tested acc. to IEC 61215-1:2016 IEC 61215-1-1:2016 IEC 61215-2:2016 IEC 61730-1:2016 IEC 61730-2:2016 EN 61215-1:2016 EN 61215-2:2017 EN 61215-1-1:2016 EN IEC 61730-1:2018 EN IEC 61730-2:2018		
Zertifiziertes Produkt (Geräteiden Certified Product (Product Ide		Lizenzent License F	gelte - Einheit <i>ee - Unit</i>
JKMxxxM-6TL4-TV (xxx=445 JKMxxxM-5RL4-TV (xxx=400 JKMxxxM-7RL3-V, JKMxxxM- (xxx=480-495, in steps o JKMxxxM-6RL3-V, JKMxxxM- (xxx=405-415, in steps o JKMxxxM-6TL3-V, JKMSxxXM (xxx=370-380, in steps o	-495, in steps of 5, 132 cells -450, in steps of 5, 120 cells -405, in steps of 5, 108 cells 7RL3-V-J, JKMSxxxM-7RL3-V-TI f 5, 156 cells) 6RL3-V-J, JKMSxxxM-6RL3-V-TI f 5, 132 cells) -6TL3-V-TI f 5, 120 cells) 7RL3-V-J, JKMSxxxN-7RL3-V-TI)	4
			4

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde. Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht. This certificate is based on our Testing and Certification Regulation. The product fulfills above mentioned requirements, the production is subject to surveillance.

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Zertifizierungsstelle Dipl.-Ing. (FH) F. He

Zertifikat	Certificate		A
Zertifikat Nr. Certificate No. PV 50416412	Blatt Sheet 0043		TÜVRheinland
Ihr Zeichen <i>Client Reference</i> L.L.F	Unser Zeichen Our Reference 01-VZJ-50173415 034	Ausstellungsdatum 30.12.2020	Date of Issue (day/mo/yr)
Genehmigungsinhaber <i>License H</i> Jinko Solar Co., Ltd No. 1 Jinko Road Shangrao Economic De 334100 Jiangxi P.R. China	. Refer to of the	tätte <i>Manufacturing Pla</i> o latest revisi annex list of f	.on
rüfzeichen Test Mark	Geprüft nach Tested acc. to		
IEC 61215 IEC 61730 Regular Production Surveillance VRheinland CERTIFIED www.tuv.com ID 1419061546	IEC 61215-1:2016 IEC 61215-1-1:2016 IEC 61215-2:2016 IEC 61730-1:2016 IEC 61730-2:2016 EN 61215-1:2016 EN 61215-2:2017 EN 61215-1-1:2016 EN IEC 61730-1:2018 EN IEC 61730-2:2018		
	ntifikation) lentification)		tgelte - Einheit Fee - Unit
PV Module In continuation of Page	42		4
JKMxxxN-6RL3-V, JKMxxxN- (xxx=405-410, in steps of JKMxxxN-6TL3-V, JKMSxxXN (xxx=370-375, in steps of JKMxxxM-72HL4-V, JKMxxXN (xxx=545-555, in steps of JKMxxxM-66HL4-V (xxx=500 JKMxxxM-60HL4-V (xxx=455)	6RL3-V-J, JKMSxxxN-6RL3-V-TI of 5, 132 cells) N-6TL3-V-TI of 5, 120 cells) A-72HL4-V-J	ls)	
			4
Dem Zertifikat liegt unsere Prüf- und Zertif Das Produkt entspricht den o.g. Anforderun This certificate is based on our Testing and fulfills above mentioned requirements, the p	gen, die Herstellung wird überwacht. Certification Regulation. The product	Zertifizierur	gsstelle

TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg Tel.: +49 221 806-1371 e-mail: cert-validity@de.tuv.com Fax: +49 221 806-3935 http://www.tuv.com/safety Dipl.-Ing. (FH) F. He

Zertifikat	Certificate		A
Zertifikat Nr. Certificate No. PV 50416412	Blatt Sheet 0044	<u>T</u>	® WRheinland
Ihr Zeichen Client Reference	Unser Zeichen Our Reference 01-VZJ-50173415 034	Ausstellungsdatum 30.12.2020	Date of Issue (day/mo/yr)
Genehmigungsinhaber License H Jinko Solar Co., Ltd No. 1 Jinko Road Shangrao Economic De 334100 Jiangxi P.R. China	. Refer to of the an	te <i>Manufacturing Plant</i> latest revisionnex list of fa	n
Prüfzeichen Test Mark IEC 61215 IEC 61730 Regular Production Surveillance Www.tuv.com ID 1419061546	Geprüft nach Tested acc. to IEC 61215-1:2016 IEC 61215-1-1:2016 IEC 61215-2:2016 IEC 61730-1:2016 IEC 61730-2:2016 EN 61215-1:2016 EN 61215-2:2017 EN 61215-1-1:2016 EN IEC 61730-1:2018 EN IEC 61730-2:2018		
Zertifiziertes Produkt (Geräteider Certified Product (Product Id	ntifikation) lentification)	Lizenzentą License Fe	gelte - Einheit ee - Unit
JKMxxxM-60HL4-TV (xxx=45	M-72HL4-TV-J	5)	4
Remarks: Changes: Manufacturing Plant upda	te: see annex.		
			4
Dem Zertifikat liegt unsere Prüf- und Zertifi Das Produkt entspricht den o.g. Anforderun This certificate is based on our Testing and fulfills above mentioned requirements, the p	gen, die Herstellung wird überwacht. Certification Regulation. The product	Zertifizierung	sstelle

TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg Tel.: +49 221 806-1371 e-mail: cert-validity@de.tuv.com Fax: +49 221 806-3935 http://www.tuv.com/safety Dipl.-Ing. (FH) F. He

Anlage Fertigungsstättenliste /Attachment List of Factories



8

PV 50416412 0001

- 1 Jinko Solar(Shangrao)Co., Ltd. No.1,Yingbin Road, Economic Development Zone, Shangrao City, 334100 Jiangxi P.R. China
- 3 VIETNAM SUNERGY JOINT STOCK COMPANY Lot B1, B2, Dinh Tram Industrial Prk Hoang Ninh Commune, Viet Yen District, 230000 Bac Giang Province, Vietnam
- 5 Jinko Solar (Chuzhou) Co., Ltd NO. 18 Liming Road, Lai'an Economic Development Zone, Chuzhou City, 239200 Anhui P.R. China
- 7 Tangshan Haitai New Energy Technology Co., Ltd. No.88, Haomen Road, Yutai Industrial Park, Yutian County, Tangshan City 064100 Hebei P.R. China

10/020 d: 04.08 @ TUV, TUEV and TUV are registered trademarks. Utilisation and application requires prior approval

Anlagenrevision / Annex revision

- 2 GREEN WING SOLAR TECHNOLOGY CO., LTD. Lot D1-1,Dai Dong-Hoan Son Industrialpark, Hoan Son Commune, Tien Du District, Bac Ninh Province Vietnam
- 4 Jinko Solar (Yiwu) Co., Ltd No. 1555, Chengxin Road, Niansanli Street, Yiwu City, 322013 Zhejiang P.R. China
- 6 Jinko Solar Technology (Haining) Co.,Ltd. No.89, Lianhong Road, Yuanhua town, Haining City, Jiaxing City, Zhejiang P.R. China
- 8 Jinko Solar (U.S.) Industries Inc. 4660 POW-MIA MEMORIAL PARKWAY, SUITE 200, JACKSONVILLE, FL 32221 USA



- 9 Laiwu Kelin Solar Power Co., Ltd. Room 101, No. 7 Zhenxing Road, Laiwu Economic Development Zone, Shandong Province 271100 Shandong P.R. China
- 11 Jinko Solar Technology Sdn. Bhd. (P5)
 Plot 538 Tingkat Perusahaan 4B,
 Perai Free Trade Zone
 13600 Perai, Penang
 Malaysia
- 13 Jiangsu hong de technology development co.,LTD Tianshan Industrial Park Gaoyou City Jiangsu P.R. China

0/020 d 04.08 @ TUV, TUEV and TUV are registered trademarks. Utilisa

15 Jiangsu Focus Solar Energy Technology Co., LTD. No. 66 Lifa Avenue, Development Zone, Hai'an County,Nantong City, Jiangsu P.R. China

- 10 Jinko Solar Technology Sdn. Bhd. (P6)
 2480, Tingkat Perusahaan Enam,
 Perai Free Trade Zone,
 13600 Perai, Penang
 Malaysia
- 12 Jiangsu Jinko Day Sheng Solar Co.,Ltd. No. 228, Yuesheng North Road, Fanshui Town,Industrial concentration area,Baoying County, Yangzhou 225819 Jiangsu P.R. China
- 14 JINKO SOLAR TECHNOLOGY SDN. BHD.(P2) 2522, Lorong Perusahaan 4 Kawasan Perusahaan Bebas Perai, Phase 1 13600 Perai, Penang Malaysia
- 16 Jinko Solar Co.,Ltd. No.1,Yingbin Road, Economic Development Zone, Shangrao City 334100 Jiangxi P.R. China



17 Zhejiang Jinko Solar Co., Ltd. No.35 Haishi Road, Jianshan New District, Haining City, 314415 Zhejiang P.R. China

- 19 HT SOLAR VIETNAM LIMITED COMPANY. F3-1 and F3-2 Workshop, Lot F3, Trang Due Industrial Park, a part of Dinh Vu Cat Hai Economic Zone, Hong Phong Commune, An Duong District, Hai Phong City Vietnam
- 21 Tongwei Solar (Hefei) Co., Ltd. No. 888 Changning Road, High-tech District Hefei 230088 Anhui P.R. China
- 23 Nantong Pengneng Industrial Co., Ltd. Group 2, Jinqiao Village, Chahe Town, Rudong Country Nantong 226403 Jiangsu P.R. China

10/020 d 04.08
TUV, TUEV and TUV are registered tra

- 18 JINKO SOLAR TECHNOLOGY SDN. BHD.(P3) Lot 10085, Plot C & D Jalan Perusahaan, Mukim 1 13600 Seberang Perai Tengah, Penang Malaysia
- 20 Yuhuan Jinkosolar Co., Ltd At the intersection of Shanghai Road and Taizhou Road in the third issue of Yuhuan economic development Zone, 317600 Zhejiang P.R. China
- 22 GK Solar Power Corp.,Ltd Yiyuan County, Zibo 256100 Shandong P.R. China
- 24 Zhejiang Jinko Solar Co., Ltd. No.58, Yuanxi Road, Yuanhua Town, Haining City, Jiaxing City, 314416 Zhejiang P.R. China



- 25 Jinko Solar (Chuzhou) Co., Ltd NO. 18 Liming Road, Lai'an Economic Development Zone, Chuzhou City, 239200 Anhui P.R. China
- 26 Jinko Solar (Yiwu) Co., Ltd No. 1555, Chengxin Road, Niansanli Street, Yiwu City, 322013 Zhejiang P.R. China
- 27 VIETNAM SUNERGY JOINT STOCK COMPANY Lot B1, B2, Dinh Tram Industrial Prk Hoang Ninh Commune, Viet Yen District, 230000 Bac Giang Province, Vietnam
- 28 GREEN WING SOLAR TECHNOLOGY CO., LTD. Lot D1-1,Dai Dong-Hoan Son Industrialpark, Hoan Son Commune, Tien Du District, Bac Ninh Province Vietnam

29 Jinko Solar(Shangrao)Co., Ltd. No.1,Yingbin Road, Economic Development Zone, Shangrao City, 334100 Jiangxi P.R. China

Dieser Anhang ersetzt den Vorgänger vom/ This annex replaces the previous annex dated

Datum / Date 17.09.2018

Zertifizierungsstelle Pro / Certification Bod Dipl.-Ing. (FH) Tim Kirschner lifizierun9



ATTESTATION

of conformity with European Directives

Attestation Number:	2088AB0709N001007
Product:	Rechargeable Li-ion Battery
Brand Name:	AMASSTORE
Model:	GTX3000-H10
Additional Models:	GTX3000-H4, GTX3000-H5, GTX3000-H6, GTX3000-H7,
	GTX3000-H8, GTX3000-H9
Applicant:	Shenzhen SOFARSOLAR Co., Ltd.
Address:	401, Building 4, AnTongDa Industrial Park, District 68, XingDong
	Community, XinAn Street, BaoAn District, Shenzhen, China.
Technical Characteristics:	GTX3000-H10: DC 512V 25KWh; GTX3000-H9: DC 460.8V 22.5KWh
	GTX3000-H8: DC 409.6V 20KWh; GTX3000-H7: DC 358.4V 17.5KWh
	GTX3000-H6: DC 307.2V 15KWh; GTX3000-H5: DC 256V 12.5KWh
	GTX3000-H4: DC 204.8V 10KWh
	Charging current: 30A Max
	Discharge current: 30A Max
The second second second	e sé the share eminered has been hered ée CE

The submitted sample of the above equipment has been tested for $\zeta \zeta$ marking according to following European Directive and standards:

Electromagnetic Compatibility Directive 2014/30/EU

Standards	Report Number	Report date
EN 61000-6-3:2007 + A1:2011 + AC:2012 EN 61000-6-2:2005	CE200709N001-7	Mar. 02, 2021

The referred test report(s) show that the product complies with standard(s) recognized as giving presumption of compliance with the essential requirements in the specified European Directive.

This verification does not imply assessment of the production of the product. The C ϵ marking may be affixed if all relevant and effective European Directives with C ϵ are applicable.

Assistant Manager EMC Department

Name: Madison Luo Date: Mar. 02, 2021

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Information given in this document is related to the tested specimen of the described electrical sample.

Bureau Veritas Shenzhen Co., Ltd. Dongguan Branch No. 96, Guantai Road (Houjie Section), Houjie Town, Dongguan City, Guangdong Province. 523942. People's Republic of China.





Attestation of Conformity

AOC No.:	2088AS0109N021003
Product:	Rechargeable Li-ion Battery
Brand Name:	AMASSTORE
Test Model No.:	GTX3000-H4, GTX3000-H5, GTX3000-H6, GTX3000-H7,
	GTX3000-H8, GTX3000-H9, GTX3000-H10
Applicant:	Shenzhen SOFARSOLAR Co., Ltd.
	401, Building 4, AnTongDa Industrial Park, District 68, XingDong Community,
	XinAn Street, BaoAn District, Shenzhen, Guangdong, P.R. China
Report No.:	BAT200709N001-5

The submitted sample of the above equipment has been tested according to following standards:

IEC 62619:2017, EN 62619:2017

Secondary cells and batteries containing alkaline or other non-acid electrolytes – Safety requirements for secondary lithium cells and batteries, for use in industrial application

The referred test report(s) show that the product complies with standard(s) recognized as giving presumption of compliance with the essential requirements in the European standards.

This verification does not imply assessment of the production of the product.



Name: James Huang Technical Manager/ New Energy Team Date: 2021-02-25

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Bureau Veritas Shenzhen Co., Ltd. Dongguan Branch



Certificate of Conformity

Certificate No.:	2088AP0302N015008
Product:	Hybrid inverter
Brand Name:	SEFAR
Test Model No.:	HYD 5KTL-3PH, HYD 6KTL-3PH, HYD 8KTL-3PH, HYD 10KTL-3PH,
	HYD 15KTL-3PH, HYD 20KTL-3PH
Applicant:	Shenzhen SOFAR SOLAR Co., Ltd.
	401, Building 4, AnTongDa Industrial Park, District 68, XingDong Community,
	XinAn Street, BaoAn District, Shenzhen, China
Report No.:	PV200302N015-6

Use in accordance with regulations:

Automatic disconnection device with three-phase mains surveillance in accordance with EN 50549-1:2019 for photovoltaic systems with a three-phase parallel coupling via an inverter in the public mains supply. The automatic disconnection device is an integral part of the aforementioned inverter.

Applied rules and standards

EN 50549-1:2019, ČSN EN 50549-1:2019

Requirements for generating plants to be connected in parallel with distribution networks - Part 1-1: Connection to a LV distribution network - Generating plants up to and including Type B

DIN V VDE V 0126-1-1:2006-02 (Functional safety)

Automatic disconnection device between a generator and the public low-voltage grid

EN 50438:2013, ČSN EN 50438:2014, PPDS Přiloha 4:2018

Requirements for micro-generating plants to be connected in parallel with public low-voltage distribution networks

At the time of issue of this certificate the safety concept of an aforementioned representative product corresponds to the valid safety specifications for the specified use in accordance with regulations.



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EQUIPMENT CERTIFICATE

Certificate No .: Issued: TC-GCC-DNVGL-SE-0124-08254-0 2022-03-03 Valid until: Unlimited

GCC class TC

Issued for:

PV Inverters HYBRID [5K-20K]TL-3PH (PPM Type A)

With specifications and software version as listed in Annex 2

Issued to:

Shenzhen SOFARSOLAR Co., Ltd.

11/F., Gaoxingi Technology Building, No.67 Area, Xingdong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, China

According to:

DNVGL-SE-0124, 2016-03: Certification of Grid Code Compliance

PTPiREE, 2021-04: Conditions and procedures for using certificates in the process of connecting power generating modules to power networks

32016R0631, 2016-04: Requirements for Generators (NC RfG)

PSE, 2018-12: Requirements of general application resulting from Commission Regulation (EU) 2016/631 of 14 April 2016

detailed in Annex 1

Based on the document:

CR-GCC-DNVGL-SE-0124-08254-A072-0

Network Code Requirements for a PGU of Type A -Poland, Certification Report, dated 2022-03-03

Further assessment information, including scope and conditions, is found in Annex 1. Description of the PV inverters and type tests performed is found in Annex 2 and Annex 3 respectively.

Hamburg, 2022-03-03 For DNV Renewables Certification

Director and Service Line Leader Type

Bente Vestergaard

and Component Certification



By DAkkS according DIN EN IEC/ISO 17065 accredited Certification Body for products. The accreditation is valid for the fields of certification listed in the certificate

Hamburg, 2022-03-03 For DNV Renewables Certification

Liselotte Ulvgård Project Manager

The accredited certification body is Germanischer Lloyd Industrial Services GmbH, Brooktorkai 18, 20457 Hamburg DNV Renewables Certification is the trading name of DNV's certification business in the renewable energy industry



Certificate No.: TC-GCC-DNVGL-SE-0124-08254-0

Page 2 of 5

Conditions, assessment criteria and scope of assessment

Provided that the conditions listed in section 1 are considered at project level, the PV inverters as further specified in Annex 2 comply with the requirements within scope of this certification, as specified in section 3.

1 Conditions

- Changes of the system design, hardware or the software of the certified PV inverters are to be approved by DNV.
- Inverter settings must finally be agreed and checked at project level to ensure grid code compliance, based on the requirements of relevant System Operator (SO). For the functionalities within scope of this certification, more information about the settings assessed is found in Control Settings in section 4.2 as well as the corresponding assessment sections 5.1-5.4 of the certification report CR-GCC-DNVGL-SE-0124-08254-A072-0.
- The capability of remote control has been shown on unit level but must finally be ensured at project level, considering any further requirements of relevant System Operator (SO) and the full communication network. For the functionalities within scope of this certification, this concerns remote cessation of active power and remote blocking and control of LFSM-O, as further described in section 5.3 and 5.4 of the certification report CR-GCC-DNVGL-SE-0124-08254-A072-0.

2 Assessment criteria and normative references for this certificate:

- /A/ Service Specification DNVGL-SE-0124: Certification of Grid Code Compliance, DNV GL, March 2016
- /B/ Conditions and procedures for using certificates in the process of connecting power generating modules to power networks, Warunki i procedury wykorzystania certyfikatów w procesie przyłączenia modułów wytwarzania energii do sieci elektroenergetycznych, version 1.2, PTPiREE, dated 2021-04-28, (in the following: PTPiREE 2021-04)
- /C/ Requirements of general application resulting from Commission Regulation (EU) 2016/631 of 14 April 2016 establishing a network code on requirements for grid connection of generators (NC RfG) as approved by the decision of the President of the Energy Regulatory Office DRE.WOSE.7128.550.2.2018.ZJ dated January 2nd 2019, Wymogi ogólnego stosowania wynikające z Rozporządzenia Komisji (UE) 2016/631 z dnia 14 kwietnia 2016 r. ustanawiającego kodeks sieci dotyczący wymogów w zakresie przyłączenia jednostek wytwórczych do sieci (NC RfG), PSE S.A., dated 2018-12-18 zatwierdzone Decyzją Prezesa Urzędu Regulacji Energetyki DRE.WOSE.7128.550.2.2018.ZJ z dnia 2 stycznia 2019 r, (in the following: PSE 2018-12)
- /D/ Commission Regulation (EU) 2016/631 of 14 April 2016 establishing a network code on requirements for grid connection of generators, published in the Official Journal of the European Union L112/1, The European Comission, 27/04/2016. Document 32016R0631, (in the following: NC RfG)

3 Scope of assessment and results

The following functionalities have been assessed based on the rules for the use of equipment certificates for Power Park Modules (PPMs), as specified in chapter 7 and 9 of the PTPiREE 2021-04 /B/. The functions denoted "Not Applicable" in the table of chapter 7 has not been included.

Capability	NC RfG /D/	PSE 2018-12 /C/	Туре А	Assessment result (*)
Frequency range	13.1(a)	13.1(a)(i)	х	Compliant
Rate of Change of Frequency (RoCoF) withstand capability, df/dt	13.1(b)	13.1(b)	x	Compliant
Remote cessation of active power	13.6	13.6	х	Compliant
Limited Frequency Sensitive Mode – Over Frequency (LFSM-O)	13.2	13.2(a), (b), (f)	х	Compliant

(*) Please note also the corresponding conditions for compliance, as stated in section 1



Certificate No.: TC-GCC-DNVGL-SE-0124-08254-0

Page 3 of 5

Schematic description and technical data of the generating units

1 Schematic description of the generating unit

The SOFARSOLAR solar inverter family Hybrid [5K-20K]TL-3PH, consisting of: HYD 5KTL-3PH, HYD 6KTL-3PH, HYD 8KTL-3PH, HYD 10KTL-3PH, HYD 15KTL-3PH, HYD 20KTL-3PH convert electrical energy generated by photovoltaic modules (DC) to three-phase alternating current (AC).

They run at 400 V rated output voltage with a rated active power output of 5 kW to 20 kW. The different output power variants are achieved through derating via software. There is no further difference in the hardware or firmware used, as stated by the manufacturer.

The electrical data of the generating unit is summarized in the following section.

2 Technical data of main components

According to the documents provided by the manufacturer, the following components are used.

2.1 General Specifications

Generating Unit	HYD 5KTL-3PH	HYD 6KTL-3PH	HYD 8KTL-3PH
No. of phases	3	3	3
Rated apparent power	5500VA	6600VA	8800VA
Rated active power	5000W	6000W	8000W
Rated AC-voltage (phase to neutral)	400Vac	400Vac	400Vac
Rated frequency	50 Hz	50 Hz	50 Hz
Generating Unit	HYD 10KTL-3PH	HYD 15KTL-3PH	HYD 20KTL-3PH
No. of phases	3	3	3
Rated apparent power	11000VA	16500VA	22000VA
Rated active power	10000W	15000W	20000W
Rated AC-voltage (phase to neutral)	400Vac	400Vac	400Vac
Rated frequency	50 Hz	50 Hz	50 Hz

2.2 DC Input

Generating Units	HYD 5KTL-3PH HYD 6KTL-3PH HYD 8KTL-3PH	HYD 10KTL-3PH HYD 15KTL-3PH HYD 20KTL-3PH	
Min. MPPT voltage	180V	180V	
Max. MPPT voltage	960V	960V	
Max. DC input voltage	1000V	1000V	
Max. DC input current	12.5A/12.5A	25A/25A	

2.3 Software Version

Software version	V000001

2.4 Unit transformer

The transformer is not part of the generating unit and consequently has not been part of the assessment.

2.6 Grid Protection

The protection is not part of certification scope



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2.7 Control settings

The control interface allows for the selection of different parameter sets via the "Safety Parameters" field, which provide default settings based on specific grid codes and national requirements. This can be set either directly on the inverter, using USB plug-in and inverter display, or remotely via RS485. For this certification the parameter set called "Poland country parameters" at the display interface, was assessed for the functionalities within scope of this certification.

It should be noted that compliance can be achieved also with other parameter sets and control settings, but that changes to control settings will affect the inverter control behaviour which can thus affect compliance. It should be noted the final settings must be agreed on project level in agreement with relevant system operator.

Protection settings has not been part of the assessment. Since these could intervene with and affect the compliance of the assessed functionalities, this must be further assessed at project level.



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Type tests

1 Type tests

Tests were performed between 2021-11-01 and 2021-11-10 in the SOFARSOLAR lab in Shenzhen in P.R. China. All tests were performed under ISO-17025 accreditation and they were performed on the HYD 15KTL-3PH unit.

The results used for assessment are documented in the measurement report(s) as specified below:

Scope	Reference	
Frequency range	3.1 of /1/	
Rate of Change of Frequency (RoCoF) withstand capability, df/dt	3.2 of /1/	
Remote cessation of active power	3.3 of /1/	
Limited Frequency Sensitive Mode – over frequency (LFSM-O)	3.4 of /1/	

Test report(s)	Document number	Content
/1/	10305241-SHA-TR-07-A	Measurement of power control characteristics of a PV inverter of the type HYD 15KTL-3PH according to FGW TG3 Rev. 25 and Polish Grid Code

The tests results have been assessed against the requirements of PSE 2018-12 /C/ and NC RfG /D/. Further details are described in the corresponding certification report CR-GCC-DNVGL-SE-0124-08254-A072-0.