

Form

Data form for critical components and material information



Product Service

Applicant name and address	Jolywood (Taizhou) Solar Technology Co., Ltd. (98081) Kaiyang Rd. Jiangyan Economic Development Zone, Taizhou City, Jiangsu Province, 225500, P.R. China.
Manufacturer name and address	Jolywood (Taizhou) Solar Technology Co., Ltd. (98081) Kaiyang Rd. Jiangyan Economic Development Zone, Taizhou City, Jiangsu Province, 225500, P.R. China.
Name and address of factory / factories	1. Jolywood (Taizhou) Solar Technology Co., Ltd. Kaiyang Rd. Jiangyan Economic Development Zone, Taizhou City, Jiangsu Province, 225500, PEOPLE'S REPUBLIC OF CHINA CBW No.: 098081 2. MASDAR FACTORY COMPANY FOR MANUFACTURING SOLAR PANELS LLC 3283, Industrial City, 47343 Tabuk, SAUDI ARABIA CBW No.: 131647 3. ECONESS ENERGY CO., LTD. No. 58 Haida Road, Huashi Town, 214421 Jiang Yin, Jiangsu Province, PEOPLE'S REPUBLIC OF CHINA CBW No.: 078439 4. Hefei GCL System Integration New Energy Technology Co., Ltd. Southeast Corner of Intersection of Sidingshan Road and Ruquan Road, Hefei Circular Economy Demonstration Park, Feidong County, 231699 Hefei, Anhui, PEOPLE'S REPUBLIC OF CHINA CBW No.: 115225 5. PT ATELIER SOLAR INDONESIA Wiraraja Industrial Park I, Blok A No. 2 & 3A, Jalan Wiraraja, Ke- lurahan Kabil, Kecamatan Nongsa, 29467 Kota Batam, Provinsi Kepulauan Riau, INDONESIA CBW No.: 135673
Project-No./Report-No.	704062423204-10
Test item description	See the corresponding test report
Model/Type reference :	Part 1 Double Glass Module Double Glass PV Modules with 182 Half-cut Mono N-type Bifacial Solar Cell NM1016B 1) 156 cells: JW-HD156N-xxx (xxx=610-635, in steps of 5) 2) 144 cells: JW-HD144N-xxx (xxx=545-590, in steps of 5) 3) 108 cells: JW-HD108N-xxx (xxx=415-445, in steps of 5) 4) 156 cells: JW-HD156N-xxxS (xxx=610-635, in steps of 5) 5) 144 cells: JW-HD144N-xxxS (xxx=545-590, in steps of 5)

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TÜV SÜD Certification and Testing (China) Co., Ltd.
Shanghai Branch
3-13F, No. 151 Heng Tong Road Shanghai, P. R. China
Name of Project Handler: Mingxuan Qi

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	<p>6) 108 cells: JW-HD108N-xxxS (xxx=415-445, in steps of 5) Double Glass PV Modules with 182.2*183.75 Half-cut Mono N-type Bifacial Solar Cell NM10L16B, N183.75R16B</p> <p>7) 156 cells: JW-HD156N-R0-xxx (xxx=610-660, in steps of 5)</p> <p>8) 144 cells: JW-HD144N-R0-xxx (xxx=570-610, in steps of 5)</p> <p>9) 108 cells: JW-HD108N-R0-xxx (xxx=420-455, in steps of 5)</p> <p>10) 156 cells: JW-HD156N-R0-xxxS (xxx=610-660, in steps of 5)</p> <p>11) 144 cells: JW-HD144N-R0-xxxS (xxx=570-610, in steps of 5)</p> <p>12) 108 cells: JW-HD108N-R0-xxxS (xxx=420-455, in steps of 5)</p> <p>Double Glass PV Modules with 182.2*186.7 and 182.2*187.5 Half-cut Mono N-type Bifacial Solar Cell NM10L216B, NM10L4-16B, N187.5R16B</p> <p>13) 120 cells: JW-HD120N-R3-xxx (xxx=480-515, in steps of 5)</p> <p>14) 108 cells: JW-HD108N-R3-xxx (xxx=430-460, in steps of 5)</p> <p>15) 120 cells: JW-HD120N-R3-xxxS (xxx=480-515, in steps of 5)</p> <p>16) 108 cells: JW-HD108N-R3-xxxS (xxx=430-460, in steps of 5)</p> <p>Double Glass PV Modules with 182.2*191.6 Half-cut Mono N-type Bifacial Solar Cell N191.6R16B</p> <p>17) 144 cells: JW-HD144N-R1-xxx (xxx=595-625, in steps of 5)</p> <p>18) 120 cells: JW-HD120N-R1-xxx (xxx=495-525, in steps of 5)</p> <p>19) 108 cells: JW-HD108N-R1-xxx (xxx=445-470, in steps of 5)</p> <p>20) 144 cells: JW-HD144N-R1-xxxS (xxx=595-625, in steps of 5)</p> <p>21) 120 cells: JW-HD120N-R1-xxxS (xxx=495-525, in steps of 5)</p> <p>22) 108 cells: JW-HD108N-R1-xxxS (xxx=445-470, in steps of 5)</p> <p>Double Glass PV Modules with 182*210 and 182.3*210 Half-cut Mono N-type Bifacial Solar Cell N210R16B, N210R18B (all models) and M210R16BTP10, G12R-A-16BB (except for 156 cells)</p> <p>43) 156 cells: JW-HD156N-R2-xxx (xxx=715-740, in steps of 5)</p> <p>23) 132 cells: JW-HD132N-R2-xxx (xxx=595-660, in steps of 5)</p> <p>24) 120 cells: JW-HD120N-R2-xxx (xxx=540-600, in steps of 5)</p> <p>25) 108 cells: JW-HD108N-R2-xxx (xxx=485-540, in steps of 5)</p> <p>26) 96 cells: JW-HD96N-R2-xxx (xxx=430-480, in steps of 5)</p> <p>44) 156 cells: JW-HD156N-R2-xxxS (xxx=715-740, in steps of 5)</p> <p>27) 132 cells: JW-HD132N-R2-xxxS (xxx=595-660, in steps of 5)</p> <p>28) 120 cells: JW-HD120N-R2-xxxS (xxx=540-600, in steps of 5)</p> <p>29) 108 cells: JW-HD108N-R2-xxxS (xxx=485-540, in steps of 5)</p> <p>30) 96 cells: JW-HD96N-R2-xxxS (xxx=430-480, in steps of 5)</p>
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	<p>Double Glass PV Modules with 182.5*212.5 Half-cut Mono N-type Bifacial Solar Cell N210R16B</p> <p>25) 108 cells: JW-HD108N-R2-xxx (xxx=485-540, in steps of 5)</p> <p>26) 96 cells: JW-HD96N-R2-xxx (xxx=430-480, in steps of 5)</p> <p>29) 108 cells: JW-HD108N-R2-xxxS (xxx=485-540, in steps of 5)</p> <p>30) 96 cells: JW-HD96N-R2-xxxS (xxx=430-480, in steps of 5)</p> <p>Double Glass PV Modules with 210*210 Half-cut Mono N-type Bifacial Solar Cell NG1218B</p> <p>31) 132 cells: JW-HD132N-xxx (xxx=685-740, in steps of 5)</p> <p>32) 120 cells: JW-HD120N-xxx (xxx=625-670, in steps of 5)</p> <p>33) 132 cells: JW-HD132N-xxxS (xxx=685-740, in steps of 5)</p> <p>34) 120 cells: JW-HD120N-xxxS (xxx=625-670, in steps of 5)</p> <p>Double Glass PV Modules with 182 Half-cut Mono P-type Bifacial Solar Cell PJ311BF46B2, PJ310BF47B2</p> <p>35) 156 cells: JW-HD156P-xxx (xxx=580-605, in steps of 5)</p> <p>36) 144 cells: JW-HD144P-xxx (xxx=525-555, in steps of 5)</p> <p>37) 108 cells: JW-HD108P-xxx (xxx=395-415, in steps of 5)</p> <p>38) 156 cells: JW-HD156P-xxxS (xxx=580-605, in steps of 5)</p> <p>39) 144 cells: JW-HD144P-xxxS (xxx=525-555, in steps of 5)</p> <p>40) 108 cells: JW-HD108P-xxxS (xxx=395-415, in steps of 5)</p> <p>Double Glass PV Modules with 182*199 Half-cut Mono N-type Bifacial Solar Cell N199R-16B</p> <p>41) 144 cells: JW-HD144N-R4-xxx (xxx=610-640, in steps of 5)</p> <p>42) 144 cells: JW-HD144N-R4-xxxS (xxx=610-640, in steps of 5)</p> <p>Double Glass PV Modules with 182.2*183.75 Half-cut Mono N-type Bifacial Solar Cell N183.75R20B</p> <p>45) 156 cells: JW-HD156J-R0-xxx (xxx=660-685, in steps of 5)</p> <p>46) 144 cells: JW-HD144J-R0-xxx (xxx=610-635, in steps of 5)</p> <p>47) 156 cells: JW-HD156J-R0-xxxS (xxx=660-685, in steps of 5)</p> <p>48) 144 cells: JW-HD144J-R0-xxxS (xxx=610-635, in steps of 5)</p> <p>Double Glass PV Modules with 182.3*210 Half-cut Mono N-type Bifacial Solar Cell N210R20B</p> <p>49) 132 cells: JW-HD132J-R2-xxx (xxx=640-665, in steps of 5)</p> <p>50) 108 cells: JW-HD108J-R2-xxx (xxx=520-545, in steps of 5)</p> <p>51) 96 cells: JW-HD96J-R2-xxx (xxx=460-485, in steps of 5)</p> <p>52) 132 cells: JW-HD132J-R2-xxxS (xxx=640-665, in steps of 5)</p> <p>53) 108 cells: JW-HD108J-R2-xxxS (xxx=520-545, in steps of 5)</p> <p>54) 96 cells: JW-HD96J-R2-xxxS (xxx=460-485, in steps of 5)</p>
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	<p>Double Glass PV Modules with 182.2*187.5 Half-cut Mono N-type Bifacial Solar Cell N187.5R20B</p> <p>55) 108 cells: JW-HD108J-R3-xxx (xxx=460-485, in steps of 5)</p> <p>56) 108 cells: JW-HD108J-R3-xxxS (xxx=460-485, in steps of 5)</p> <p>Double Glass PV Modules with 182.3*213.5 1/4-cut Mono N-type Bifacial Solar Cell N213.5R16B</p> <p>57) 264 cells: JW-MD66N-R2-xxx (xxx=630-670, in steps of 5)</p> <p>58) 216 cells: JW-MD54N-R2-xxx (xxx=515-550, in steps of 5)</p> <p>59) 192 cells: JW-MD48N-R2-xxx (xxx=455-490, in steps of 5)</p> <p>60) 264 cells: JW-MD66N-R2-xxxS (xxx=630-670, in steps of 5)</p> <p>61) 216 cells: JW-MD54N-R2-xxxS (xxx=515-550, in steps of 5)</p> <p>62) 192 cells: JW-MD48N-R2-xxxS (xxx=455-490, in steps of 5)</p> <p>Double Glass PV Modules with 182.3*210 Half-cut Mono N-type Bifacial Solar Cell N210R16B2</p> <p>63) 132 cells: JW-HD132N2-R2-xxx (xxx=595-660, in steps of 5)</p> <p>64) 108 cells: JW-HD108N2-R2-xxx (xxx=485-540, in steps of 5)</p> <p>65) 96 cells: JW-HD96N2-R2-xxx (xxx=430-480, in steps of 5)</p> <p>66) 132 cells: JW-HD132N2-R2-xxxS (xxx=595-660, in steps of 5)</p> <p>67) 108 cells: JW-HD108N2-R2-xxxS (xxx=485-540, in steps of 5)</p> <p>68) 96 cells: JW-HD96N2-R2-xxxS (xxx=430-480, in steps of 5)</p> <p>Double Glass PV Modules with 182.5*212.5 Half-cut Mono N-type Bifacial Solar Cell N210R16B2</p> <p>64) 108 cells: JW-HD108N2-R2-xxx (xxx=485-540, in steps of 5)</p> <p>65) 96 cells: JW-HD96N2-R2-xxx (xxx=430-480, in steps of 5)</p> <p>67) 108 cells: JW-HD108N2-R2-xxxS (xxx=485-540, in steps of 5)</p> <p>68) 96 cells: JW-HD96N2-R2-xxxS (xxx=430-480, in steps of 5)</p> <p>Double Glass PV Modules with 210*210 Half-cut Mono N-type Bifacial Solar Cell NG1218B2</p> <p>69) 132 cells: JW-HD132N2-xxx (xxx=685-740, in steps of 5)</p> <p>70) 120 cells: JW-HD120N2-xxx (xxx=625-670, in steps of 5)</p> <p>71) 132 cells: JW-HD132N2-xxxS (xxx=685-740, in steps of 5)</p> <p>72) 120 cells: JW-HD120N2-xxxS (xxx=625-670, in steps of 5)</p> <p>Double Glass PV Modules with 182.3*213.5 1/4-cut Mono N-type Bifacial Solar Cell N213.5R16B2</p> <p>73) 264 cells: JW-MD66N2-R2-xxx (xxx=630-670, in steps of 5)</p> <p>74) 216 cells: JW-MD54N2-R2-xxx (xxx=515-550, in steps of 5)</p> <p>75) 192 cells: JW-MD48N2-R2-xxx (xxx=455-490, in steps of 5)</p> <p>76) 264 cells: JW-MD66N2-R2-xxxS (xxx=630-670, in steps of 5)</p>
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	77) 216 cells: JW-MD54N2-R2-xxxS (xxx=515-550, in steps of 5) 78) 192 cells: JW-MD48N2-R2-xxxS (xxx=455-490, in steps of 5) xxx stands for rated output power at STC
Device type	Mono-crystalline Silicon Photovoltaic (PV) Module

Ratings.....	See below electrical parameter table
Overvoltage category	☐ I / ☐ II / ☒ III / ☐ IV / ☐ N/A
Pollution degree	☒ 1 / ☐ 2 / ☐ 3 / ☐ 4 / ☐ N/A
Class of protection	☐ Class I (PE connected) ☒ Class II (isolated) ☐ Class III ☐ Others: ☐ N/A
Product with functional earthing	☐ Yes ☒ N/A
Environmental conditions / Maximum ambient temperature (°C).....	-40~+40
Equipment mobility / Classification of installation and use	☐ transportable / ☐ portable / ☐ stationary / ☐ mobile / ☐ fixed / ☒ permanently installed / ☐ hand-held / ☐ body-worn / ☐ building-in / ☒ Others: ≤2000 m above sea level
Overall size of equipment (mm)	1),7) 2465x1134x30/35mm (with full frame) 2),8) 2278x1134x35/30mm (with full frame) 3),9) 1722x1134x35/30mm (with full frame) 4),10) 2465x1134x29/30mm (with full frame) 5),11) 2278x1134x29/30mm (with full frame) 6),12) 1722x1134x29/30mm (with full frame) 13),15) 1950x1134x29/30/35mm (with full frame) 14),16) 1762x1134x29/30/35mm (with full frame) 17),20),23),27),63),66) 2382x1134x29/30/35mm (with full frame) 18),21) 1994x1134x29/30/35mm (with full frame) 19),22) 1800x1134x29/30/35mm (with full frame) 24),28) 2172x1134x29/30/35mm (with full frame)

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	<p>25),29),64),67) 1960x1134x29/30/35mm or 1978x1134x29/30/35mm (with full frame)</p> <p>26),30),65),68) 1762x1134x29/30/35mm (with full frame)</p> <p>31),33),69),71) 2384x1303x29/30/33/35mm (with full frame)</p> <p>32),34),70),72) 2172x1303x29/30/33/35mm (with full frame)</p> <p>35),38) 2465x1134x29/30/35mm (with full frame)</p> <p>36),39) 2278x1134x29/30/35mm (with full frame)</p> <p>37),40) 1722x1134x29/30/35mm (with full frame)</p> <p>41),42) 2465x1134x29/30/35mm (with full frame)</p> <p>43) 2465x1303x30/33/35mm (with full frame)</p> <p>44) 2465x1303x29/30mm (with full frame)</p> <p>45),47) 2465x1134x30/29/33/35mm (with full frame)</p> <p>46),48) 2278x1134x30/29/33/35mm (with full frame)</p> <p>49),52) 2382x1134x30/29/33/35mm (with full frame)</p> <p>50),53) 1960x1134x30/29/33/35mm (with full frame)</p> <p>51),54) 1762x1134x30/29/33/35mm (with full frame)</p> <p>55),56) 1762x1134x30/29/33/35mm (with full frame)</p> <p>57),60),73),76) 2382x1134x30/29/33/35mm (with full frame)</p> <p>58),61),74),77) 1960x1134x30/29/33/35mm (with full frame)</p> <p>59),62),75),78) 1762x1134x30/29/33/35mm (with full frame)</p>
Mass of equipment (kg).....:	<p>1) 34.5kg or 36.5kg (approx)</p> <p>2) 31.5kg or 32.5kg or 34.5kg (approx)</p> <p>3) 20.8kg or 24.5kg or 27.0kg (approx)</p> <p>4) 36.5kg (approx)</p> <p>5) 34.5kg (approx)</p> <p>6) 27.0kg (approx)</p> <p>7) 34.5kg or 36.5kg (approx)</p> <p>8) 32kg or 33kg or 35kg (approx)</p> <p>9) 20.8kg or 24.6kg or 27.0kg (approx)</p> <p>10) 36.5kg (approx)</p> <p>11) 34.6kg (approx)</p> <p>12) 27.0kg (approx)</p> <p>13) 23.3kg or 27.6kg (approx)</p> <p>14) 21.2kg or 25.0kg (approx)</p> <p>15) 30kg (approx)</p> <p>16) 27.3kg (approx)</p>

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	17) 33.3kg (approx)
	18) 28.2kg (approx)
	19) 21.6kg or 25.6kg (approx)
	20) 36.0kg (approx)
	21) 30.5kg (approx)
	22) 27.8kg (approx)
	23) ,63) 32.7kg (approx)
	24) 30.5kg (approx)
	25) ,64) 27.3kg or 27.5kg (approx)
	26) ,65) 21.2kg or 24.6kg (approx)
	27) ,66) 34.8kg or 35.2kg (approx)
	28) 33.0kg (approx)
	29) ,67) 30.0kg or 29.2kg (approx)
	30) ,68) 27.2kg or 26.2kg (approx)
	31) ,69) 37.5kg (approx)
	32) ,70) 34.9kg or 35.5kg (approx)
	33) ,71) 39.6kg or 40.5kg (approx)
	34) ,72) 37.1kg (approx)
	35) 34.5kg or 36.5kg (approx)
	36) 31.5kg or 32.5kg or 34.5kg (approx)
	37) 20.8kg or 24.5kg or 27.0kg (approx)
	38) 37.2kg (approx)
	39) 34.6kg (approx)
	40) 26.8kg (approx)
	41) 33.5kg (approx)
	42) 35.2kg (approx)
	43) 39.0kg (approx)
	44) 40.8kg (approx)
	45) 34.5kg (approx)
	46) 31.5kg (approx)
	47) 36.0kg (approx)
	48) 33.4kg (approx)
	49) 33.3kg (approx)
	50) 27.3kg (approx)
	51) 21.2kg or 24.6kg (approx)
	52) 34.8kg (approx)

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	53) 29.0kg (approx) 54) 26.7kg (approx) 55) 21.2kg (approx) 56) 26.7kg (approx) 57) ,73) 32.7kg (approx) 58) ,74) 27.3kg (approx) 59) ,75) 23.6kg or 24.6kg (approx) 60) ,76) 34.8kg (approx) 61) ,77) 29.2kg (approx) 62) ,78) 26.2kg (approx)
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Data communication ports:

☒ N/A

Wired ports.....: ☒N/A ☐USB ☐LAN ☐DALI
☐Other:

Wireless ports: ☒N/A ☐Wifi ☐Bluetooth ☐NFC ☐4G/LTE ☐5G
☐Other:

Data Storage/ Processing.....: ☐N/A ☒Local ☒Cloud

Additional

IEC 60601-1 / EN 60601-1 / ANSI/AAMI ES60601-1 / CAN/CSA-C22.2 No. 60601-1:

☒ N/A

Applied part type: ☐B ☐BF ☐CF ☐Defibrillation-Proof ☒No AP

Software Version.....: N/A

General product information and other remarks:

Main label / Warning Markings:

 Jolywood(Taizhou) Solar Technology Co.,Ltd. Model Type JW-HD132N-R2-610S Product Name Solar Module Fire Rating Class C Connector see manual for designated connectors Jolywood: JW-C2 Address:Kaiyang Rd,Jiangyan Economic Development Zone,Taizhou,Jiangsu,China	 Safety information Test Conditions Short-Circuit Current (Isc TOL±5%) Open-Circuit Voltage (Voc TOL±4%) Rated Max Power (Pmax TOL±3%) Current at Pmax (Imp) Voltage at Pmax (Vmp) Min. Design Load (P0(DSF=1.5)) STC:AM=1.5, E=1000W/m², Tc=25°C INPL: Front1000W/m², Rear135W/m² BSL: Front1000W/m², Rear300W/m²	STC INPL BSL 15.77A 17.35A 19.28A 47.66V 47.80V 610W 671.0W 14.91A 16.32A 40.91V 41.11V 3600/1600	Module(Tamb)(°C) 70 Power Selection 0~5W Maximum Overcurrent Protection Rating 35A Maximum System Voltage 1500V PV Module Classification Class II Bifaciality coefficient: ϕba~99±3%, ϕbr~79±10%, ϕbmax~80±10%

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Data form for critical components and material information

<div>  中來光电 JOLYWOOD </div> <div>  Safety information </div> <p>Jolywood(Taihuo) Solar Technology Co., Ltd.</p> <p>Model Type: JW-HD12N-R3-500</p> <p>Product Name: Solar Module</p> <p>Fire Rating: Class C</p> <p>Connector: see manual for designated connectors</p> <p>Staubli: EVO2</p> <p>Address: Kaiyang Rd, Jiangyan Economic Development Zone, Taizhou, Jiangsu, China</p>	<div>  NIWA </div> <div>  Safety information </div> <p>Jolywood(Taihuo) Solar Technology Co., Ltd.</p> <p>Model Type: JW-HD12N-R3-500</p> <p>Product Name: Solar Module</p> <p>Fire Rating: Class C</p> <p>Connector: see manual for designated connectors</p> <p>Jolywood: EVO2</p> <p>Address: Kaiyang Rd, Jiangyan Economic Development Zone, Taizhou, Jiangsu, China</p>	<p>Test Conditions</p> <p>Short-Circuit Current (Isc TOL±5%)</p> <p>Open-Circuit Voltage (Voc TOL±4%)</p> <p>Rated Max Power (Pmax TOL±3%)</p> <p>Current at Pmax (Imp)</p> <p>Voltage at Pmax (Vmp)</p> <p>Min. Design Load (Pa(DSF=1.5))</p> <p>STC: AM-1.5, E=1000W/m², Tc=25°C</p> <p>BNPI: Front 1000W/m², Rear 135W/m²</p> <p>BSI: Front 1000W/m², Rear 300W/m²</p>	<p>STC BNPI BSI</p> <p>14.12A 15.53A 17.25A</p> <p>34.91V 35.02V</p> <p>450W 495.0W</p> <p>13.34A 14.60A</p> <p>37.47V 37.66V</p> <p>3600/1600</p> <p>Module(T_{amb}°C)</p> <p>Power Selection</p> <p>Maximum Overcurrent Protection Rating</p> <p>Maximum System Voltage</p> <p>PV Module Classification</p> <p>Bifaciality coefficient:</p> <p>Φ_{fr}=99±3%, Φ_{br}=79±10%, Φ_{front}=80±10%</p> <p>CE TÜV ISO 9001 ISO 14001</p>
<div>  中來光电 JOLYWOOD </div> <div>  Safety information </div> <p>Jolywood(Taihuo) Solar Technology Co., Ltd.</p> <p>Model Type: JW-HD96N-R2-450</p> <p>Product Name: Solar Module</p> <p>Fire Rating: Class C</p> <p>Connector: see manual for designated connectors</p> <p>Jolywood: JWC2</p> <p>Address: Kaiyang Rd, Jiangyan Economic Development Zone, Taizhou, Jiangsu, China</p>	<div>  NIWA </div> <div>  Safety information </div> <p>Jolywood(Taihuo) Solar Technology Co., Ltd.</p> <p>Model Type: JW-HD96N-R2-450</p> <p>Product Name: Solar Module</p> <p>Fire Rating: Class C</p> <p>Connector: see manual for designated connectors</p> <p>Jolywood: JWC2</p> <p>Address: Kaiyang Rd, Jiangyan Economic Development Zone, Taizhou, Jiangsu, China</p>	<p>Test Conditions</p> <p>Short-Circuit Current (Isc TOL±5%)</p> <p>Open-Circuit Voltage (Voc TOL±4%)</p> <p>Rated Max Power (Pmax TOL±3%)</p> <p>Current at Pmax (Imp)</p> <p>Voltage at Pmax (Vmp)</p> <p>Min. Design Load (Pa(DSF=1.5))</p> <p>STC: AM-1.5, E=1000W/m², Tc=25°C</p> <p>BNPI: Front 1000W/m², Rear 135W/m²</p> <p>BSI: Front 1000W/m², Rear 300W/m²</p>	<p>STC BNPI BSI</p> <p>15.86A 17.45A 19.39A</p> <p>34.91V 35.02V</p> <p>450W 495.0W</p> <p>15.01A 16.43A</p> <p>29.98V 30.13V</p> <p>3600/1600</p> <p>Module(T_{amb}°C)</p> <p>Power Selection</p> <p>Maximum Overcurrent Protection Rating</p> <p>Maximum System Voltage</p> <p>PV Module Classification</p> <p>Bifaciality coefficient:</p> <p>Φ_{fr}=99±3%, Φ_{br}=79±10%, Φ_{front}=80±10%</p> <p>CE TÜV ISO 9001 ISO 14001</p>
<div>  中來光电 JOLYWOOD </div> <div>  Safety information </div> <p>Jolywood(Taihuo) Solar Technology Co., Ltd.</p> <p>Model Type: JW-HD12N-R2-610</p> <p>Product Name: Solar Module</p> <p>Fire Rating: Class C</p> <p>Connector: see manual for designated connectors</p> <p>Jolywood: JWC2</p> <p>Address: Kaiyang Rd, Jiangyan Economic Development Zone, Taizhou, Jiangsu, China</p> <p>Made in China</p>	<div>  NIWA </div> <div>  Safety information </div> <p>Jolywood(Taihuo) Solar Technology Co., Ltd.</p> <p>Model Type: JW-HD12N-R2-610</p> <p>Product Name: Solar Module</p> <p>Fire Rating: Class C</p> <p>Connector: see manual for designated connectors</p> <p>Jolywood: JWC2</p> <p>Address: Kaiyang Rd, Jiangyan Economic Development Zone, Taizhou, Jiangsu, China</p> <p>Made in China</p>	<p>Test Conditions</p> <p>Short-Circuit Current (Isc TOL±5%)</p> <p>Open-Circuit Voltage (Voc TOL±4%)</p> <p>Rated Max Power (Pmax TOL±3%)</p> <p>Current at Pmax (Imp)</p> <p>Voltage at Pmax (Vmp)</p> <p>Min. Design Load (Pa(DSF=1.5))</p> <p>STC: AM-1.5, E=1000W/m², Tc=25°C</p> <p>BNPI: Front 1000W/m², Rear 135W/m²</p> <p>BSI: Front 1000W/m², Rear 300W/m²</p>	<p>STC BNPI BSI</p> <p>15.77A 17.35A 19.28A</p> <p>47.66V 47.80V</p> <p>610W 671.0W</p> <p>14.91A 16.32A</p> <p>40.91V 41.1V</p> <p>3600/1600</p> <p>Module(T_{amb}°C)</p> <p>Power Selection</p> <p>Maximum Overcurrent Protection Rating</p> <p>Maximum System Voltage</p> <p>PV Module Classification</p> <p>Bifaciality coefficient:</p> <p>Φ_{fr}=99±3%, Φ_{br}=79±10%, Φ_{front}=80±10%</p> <p>CE TÜV ISO 9001 ISO 14001</p>
<div>  中來光电 JOLYWOOD </div> <div>  Safety information </div> <p>Jolywood(Taihuo) Solar Technology Co., Ltd.</p> <p>Model Type: JW-HD96N-R2-450</p> <p>Product Name: Solar Module</p> <p>Fire Rating: Class C</p> <p>Connector: see manual for designated connectors</p> <p>Jolywood: JWC2</p> <p>Address: Kaiyang Rd, Jiangyan Economic Development Zone, Taizhou, Jiangsu, China</p> <p>Manufactured in China</p>	<div>  NIWA </div> <div>  Safety information </div> <p>Jolywood(Taihuo) Solar Technology Co., Ltd.</p> <p>Model Type: JW-HD96N-R2-450</p> <p>Product Name: Solar Module</p> <p>Fire Rating: Class C</p> <p>Connector: see manual for designated connectors</p> <p>Jolywood: JWC2</p> <p>Address: Kaiyang Rd, Jiangyan Economic Development Zone, Taizhou, Jiangsu, China</p> <p>Manufactured in China</p>	<p>Test Conditions</p> <p>Short-Circuit Current (Isc TOL±5%)</p> <p>Open-Circuit Voltage (Voc TOL±4%)</p> <p>Rated Max Power (Pmax TOL±3%)</p> <p>Current at Pmax (Imp)</p> <p>Voltage at Pmax (Vmp)</p> <p>Min. Design Load (Pa(DSF=1.5))</p> <p>STC: AM-1.5, E=1000W/m², Tc=25°C</p> <p>BNPI: Front 1000W/m², Rear 135W/m²</p> <p>BSI: Front 1000W/m², Rear 300W/m²</p>	<p>STC BNPI BSI</p> <p>15.86A 17.45A 19.39A</p> <p>34.91V 35.02V</p> <p>450W 495.0W</p> <p>15.01A 16.43A</p> <p>29.98V 30.13V</p> <p>3600/1600</p> <p>Module(T_{amb}°C)</p> <p>Power Selection</p> <p>Maximum Overcurrent Protection Rating</p> <p>Maximum System Voltage</p> <p>PV Module Classification</p> <p>Bifaciality coefficient:</p> <p>Φ_{fr}=99±3%, Φ_{br}=79±10%, Φ_{front}=80±10%</p> <p>CE TÜV ISO 9001 ISO 14001</p>
<div>  中來光电 JOLYWOOD </div> <div>  Safety information </div> <p>Jolywood(Taihuo) Solar Technology Co., Ltd.</p> <p>Model Type: JW-HD96N-R2-450</p> <p>Product Name: Solar Module</p>			

Data form for critical components and material information

Jolywood Safety information Jolywood(Taizhou) Solar Technology Co.,Ltd. Model Type JW-HD132N-720 Product Name Solar Module Fire Rating Class C Connector, see manual for designated connectors Jolywood: JWC2 Address:Kaiyang Rd,Jiangyin Economic Development Zone,Taizhou,Jiangsu,China		Test Conditions Short-Circuit Current (Isc TOL±5%) Open-Circuit Voltage (Voc TOL±4%) Rated Max Power (Pmax TOL±3%) Current at Pmax (Imp) Voltage at Pmax (Vmp) Min. Design Load (Pa(DSF=1.5)) STC: AM=1.5, E=1000W/m², Tc=25°C BNPI: Front1000W/m², Rear135W/m² BSL: Front1000W/m², Rear300W/m²	STC BNPI BSL 18.56A 20.42A 22.68A 49.29V 49.44V 720W 792.0W 17.48A 19.13A 41.19V 41.40V 3600/1600	Module(T _{amb} °C) Power Selection Maximum Overcurrent Protection Rating Maximum System Voltage PV Module Classification Bifaciality coefficient: $\phi_{fr} \geq 99.3\%$, $\phi_{br} \geq 73 \pm 10\%$, $\phi_{fmax} \geq 90 \pm 10\%$	70 0~5W 35A 1500V Class II	   
Jolywood Safety information Jolywood(Taizhou) Solar Technology Co.,Ltd. Model Type JW-HD132N-720 Product Name Solar Module Fire Rating Class C Connector, see manual for designated connectors Jolywood: JWC2 Address:Kaiyang Rd,Jiangyin Economic Development Zone,Taizhou,Jiangsu,China		Test Conditions Short-Circuit Current (Isc TOL±5%) Open-Circuit Voltage (Voc TOL±4%) Rated Max Power (Pmax TOL±3%) Current at Pmax (Imp) Voltage at Pmax (Vmp) Min. Design Load (Pa(DSF=1.5)) STC: AM=1.5, E=1000W/m², Tc=25°C BNPI: Front1000W/m², Rear135W/m² BSL: Front1000W/m², Rear300W/m²	STC BNPI BSL 18.56A 20.42A 22.68A 49.29V 49.44V 720W 792.0W 17.48A 19.13A 41.19V 41.40V 3600/1600	Module(T _{amb} °C) Power Selection Maximum Overcurrent Protection Rating Maximum System Voltage PV Module Classification Bifaciality coefficient: $\phi_{fr} \geq 99.3\%$, $\phi_{br} \geq 73 \pm 10\%$, $\phi_{fmax} \geq 90 \pm 10\%$	70 0~5W 35A 1500V Class II	   
Jolywood Safety information Jolywood(Taizhou) Solar Technology Co.,Ltd. Model Type JW-HD132N-720 Product Name Solar Module Fire Rating Class C Connector, see manual for designated connectors Jolywood: JWC2 Address:Kaiyang Rd,Jiangyin Economic Development Zone,Taizhou,Jiangsu,China		Test Conditions Short-Circuit Current (Isc TOL±5%) Open-Circuit Voltage (Voc TOL±4%) Rated Max Power (Pmax TOL±3%) Current at Pmax (Imp) Voltage at Pmax (Vmp) Min. Design Load (Pa(DSF=1.5)) STC: AM=1.5, E=1000W/m², Tc=25°C BNPI: Front1000W/m², Rear135W/m² BSL: Front1000W/m², Rear300W/m²	STC BNPI BSL 18.56A 20.42A 22.68A 49.29V 49.44V 720W 792.0W 17.48A 19.13A 41.19V 41.40V 3600/1600	Module(T _{amb} °C) Power Selection Maximum Overcurrent Protection Rating Maximum System Voltage PV Module Classification Bifaciality coefficient: $\phi_{fr} \geq 99.3\%$, $\phi_{br} \geq 73 \pm 10\%$, $\phi_{fmax} \geq 90 \pm 10\%$	70 0~5W 35A 1500V Class II	   
中來光电 JOLYWOOD Safety information Jolywood(Taizhou) Solar Technology Co.,Ltd. Model Type JW-MD66N-660 Product Name Solar Module Fire Rating Class C Connector, see manual for designated connectors Jolywood: JWC2 Address:Kaiyang Rd,Jiangyin Economic Development Zone,Taizhou,Jiangsu,China		Test Conditions Short-Circuit Current (Isc TOL±5%) Open-Circuit Voltage (Voc TOL±4%) Rated Max Power (Pmax TOL±3%) Current at Pmax (Imp) Voltage at Pmax (Vmp) Min. Design Load (Pa(DSF=1.5)) STC: AM=1.5, E=1000W/m², Tc=25°C BNPI: Front1000W/m², Rear135W/m² BSL: Front1000W/m², Rear300W/m²	STC BNPI BSL 16.50A 18.15A 20.17A 50.27V 50.42V 660W 726.0W 15.66A 17.14A 42.14V 42.35V 3600/1600	Module(T _{amb} °C) Power Selection Maximum Overcurrent Protection Rating Maximum System Voltage PV Module Classification Bifaciality coefficient: $\phi_{fr} \geq 98.5\%$, $\phi_{br} \geq 85 \pm 10\%$, $\phi_{fmax} \geq 85 \pm 10\%$	70 0~5W 35A 1500V Class II	   
中來光电 JOLYWOOD Safety information Jolywood(Taizhou) Solar Technology Co.,Ltd. Model Type JW-MD66N-660 Product Name Solar Module Fire Rating Class C Connector, see manual for designated connectors Jolywood: JWC2 Address:Kaiyang Rd,Jiangyin Economic Development Zone,Taizhou,Jiangsu,China		Test Conditions Short-Circuit Current (Isc TOL±5%) Open-Circuit Voltage (Voc TOL±4%) Rated Max Power (Pmax TOL±3%) Current at Pmax (Imp) Voltage at Pmax (Vmp) Min. Design Load (Pa(DSF=1.5)) STC: AM=1.5, E=1000W/m², Tc=25°C BNPI: Front1000W/m², Rear135W/m² BSL: Front1000W/m², Rear300W/m²	STC BNPI BSL 16.50A 18.15A 20.17A 50.27V 50.42V 660W 726.0W 15.66A 17.14A 42.14V 42.35V 3600/1600	Module(T _{amb} °C) Power Selection Maximum Overcurrent Protection Rating Maximum System Voltage PV Module Classification Bifaciality coefficient: $\phi_{fr} \geq 98.5\%$, $\phi_{br} \geq 85 \pm 10\%$, $\phi_{fmax} \geq 85 \pm 10\%$	70 0~5W 35A 1500V Class II	   
中來光电 JOLYWOOD NIWA Safety information Jolywood(Taizhou) Solar Technology Co.,Ltd. Model Type JW-MD48N-480 Product Name Solar Module Fire Rating Class C Connector, see manual for designated connectors Jolywood: JWC2 Address:Kaiyang Rd,Jiangyin Economic Development Zone,Taizhou,Jiangsu,China		Test Conditions Short-Circuit Current (Isc TOL±5%) Open-Circuit Voltage (Voc TOL±4%) Rated Max Power (Pmax TOL±3%) Current at Pmax (Imp) Voltage at Pmax (Vmp) Min. Design Load (Pa(DSF=1.5)) STC: AM=1.5, E=1000W/m², Tc=25°C BNPI: Front1000W/m², Rear135W/m² BSL: Front1000W/m², Rear300W/m²	STC BNPI BSL 16.60A 18.26A 20.29A 36.37V 36.48V 480W 528W 15.79A 17.28A 30.			

Form

Data form for critical components and material information



Product Service

<p>中策光电 JOLYWOOD</p> <p>Jolywood(Taizhou) Solar Technology Co., Ltd.</p> <p>Model Type JW-MD6N2-660</p> <p>Product Name Solar Module</p> <p>Fire Rating Class C</p> <p>Connector: see manual for designated connectors Jolywood: JWC2</p> <p>Address: Kaiyang Rd, Jiangyan Economic Development Zone, Taizhou, Jiangsu, China</p>	<p>中策光电 JOLYWOOD</p> <p>Jolywood(Taizhou) Solar Technology Co., Ltd.</p> <p>Model Type JW-MD6N2-660</p> <p>Product Name Solar Module</p> <p>Fire Rating Class C</p> <p>Connector: see manual for designated connectors Jolywood: JWC2</p> <p>Address: Kaiyang Rd, Jiangyan Economic Development Zone, Taizhou, Jiangsu, China</p>	<p>Test Conditions</p> <p>Short-Circuit Current (Isc TOL±5%) 16.50A 18.06A 19.97A</p> <p>Open-Circuit Voltage (Voc TOL±4%) 50.27V 50.37V</p> <p>Rated Max Power (Pmax TOL±3%) 660W 722.4W</p> <p>Current at Pmax (Imp) 15.66A 17.07A</p> <p>Voltage at Pmax (Vmp) 42.14V 42.31V</p> <p>Min. Design Load (Pa)(D5F±1.5) 3600/1600</p> <p>STC: AM=1.5, E=1000W/m², Tc=25°C</p> <p>BNPI: Front1000W/m², Rear135W/m²</p> <p>BSI: Front1000W/m², Rear300W/m²</p>	<p>Module T_{amb}(°C) 70</p> <p>Power Selection 0~5W</p> <p>Maximum Overcurrent Protection Rating 35A</p> <p>Maximum System Voltage 1500V</p> <p>PV Module Classification Class II</p> <p>Bifaciality coefficient: $\rho_{ba}=98\pm5\%, \rho_{br}=70\pm10\%, \rho_{fmax}=70\pm10\%$</p> <p>CE, TÜV, SUD, IEC, WEEE</p>
	<p>中策光电 niwa</p> <p>Jolywood(Taizhou) Solar Technology Co., Ltd.</p> <p>Model Type JW-HD108N2-R2-530</p> <p>Product Name Solar Module</p> <p>Fire Rating Class C</p> <p>Connector: see manual for designated connectors Jolywood: JWC2</p> <p>Address: Kaiyang Rd, Jiangyan Economic Development Zone, Taizhou, Jiangsu, China</p>	<p>Test Conditions</p> <p>Short-Circuit Current (Isc TOL±5%) 16.14A 17.67A 19.53A</p> <p>Open-Circuit Voltage (Voc TOL±4%) 40.23V 40.31V</p> <p>Rated Max Power (Pmax TOL±3%) 530W 580.1W</p> <p>Current at Pmax (Imp) 15.33A 16.71A</p> <p>Voltage at Pmax (Vmp) 34.58V 34.72V</p> <p>Min. Design Load (Pa)(D5F±1.5) 3600/1600</p> <p>STC: AM=1.5, E=1000W/m², Tc=25°C</p> <p>BNPI: Front1000W/m², Rear135W/m²</p> <p>BSI: Front1000W/m², Rear300W/m²</p>	<p>Module T_{amb}(°C) 70</p> <p>Power Selection 0~5W</p> <p>Maximum Overcurrent Protection Rating 35A</p> <p>Maximum System Voltage 1500V</p> <p>PV Module Classification Class II</p> <p>Bifaciality coefficient: $\rho_{ba}=98\pm5\%, \rho_{br}=70\pm10\%, \rho_{fmax}=70\pm10\%$</p> <p>CE, TÜV, SUD, IEC, WEEE</p>
	<p>中策光电 niwa</p> <p>Jolywood(Taizhou) Solar Technology Co., Ltd.</p> <p>Model Type JW-HD108N2-R2-530</p> <p>Product Name Solar Module</p> <p>Fire Rating Class C</p> <p>Connector: see manual for designated connectors Jolywood: JWC2</p> <p>Address: Kaiyang Rd, Jiangyan Economic Development Zone, Taizhou, Jiangsu, China</p>	<p>Test Conditions</p> <p>Short-Circuit Current (Isc TOL±5%) 16.14A 17.67A 19.53A</p> <p>Open-Circuit Voltage (Voc TOL±4%) 40.23V 40.31V</p> <p>Rated Max Power (Pmax TOL±3%) 530W 580.1W</p> <p>Current at Pmax (Imp) 15.33A 16.71A</p> <p>Voltage at Pmax (Vmp) 34.58V 34.72V</p> <p>Min. Design Load (Pa)(D5F±1.5) 3600/1600</p> <p>STC: AM=1.5, E=1000W/m², Tc=25°C</p> <p>BNPI: Front1000W/m², Rear135W/m²</p> <p>BSI: Front1000W/m², Rear300W/m²</p>	<p>Module T_{amb}(°C) 70</p> <p>Power Selection 0~5W</p> <p>Maximum Overcurrent Protection Rating 35A</p> <p>Maximum System Voltage 1500V</p> <p>PV Module Classification Class II</p> <p>Bifaciality coefficient: $\rho_{ba}=98\pm5\%, \rho_{br}=70\pm10\%, \rho_{fmax}=70\pm10\%$</p> <p>CE, TÜV, SUD, IEC, WEEE</p>
Description of model differences:	See the corresponding test report		
General information / Intended use:	See the corresponding test report		
Equipotential Bonding:	 <p>Grounding hole&Equipotential bonding symbol</p>		
Drawing(s) / Picture(s):	See the corresponding test report		

Additional information:

Types of terminations:

- Type A: wire of flying lead ☐
- Type B: tags, threaded stubs, screws, etc. ☐
- Type C: connector ☒
- Junction box ☒

Protection devices:

- By-pass Diode ☒
- Fuse ☐
- Other ☐

Fire safety class according to UL790:

- Class A (only tested on Xinyi glass) ☒
- Class B ☐

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Revision: 10

Date: 2026-02-10

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TÜV SÜD Certification and Testing (China) Co., Ltd.

Shanghai Branch

3-13F, No. 151 Heng Tong Road Shanghai, P. R. China

Name of Project Handler: Mingxuan Qi

Form

Data form for critical components and material information



Product Service

Class C



Frame:

Framed



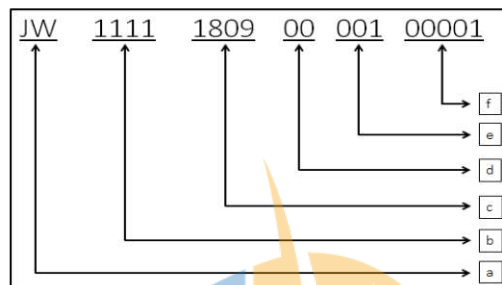
Frameless



Designed mechanical load and safety factor: Positive: 3600 Pa,1.5
Negative: 1600 Pa,1.5

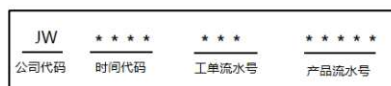
Serial No.bar code:

Serial No. code bar Ver 1:



- a) Company Code:
- b) Module type: for example, 11 for 60 N type cells modules ,33 for 144 N type cells modules, 34 for 144 P type cells modules;
Backsheet(third): 1 for Transparent Backsheet, 2 for white backsheet, 3 for blacksheet, 4 for glass with inside white ceramic glaze coating.
Cell type(forth): 1 for 156.75 chamfer, 2 for 157.35 chamfer, 3 for 158.75 chamfer, 4 for 158.75 right-angle, 5 for 166.0 chamfer, 6 for 182.0 chamfer.
- c) Date: example: 1810
- d) Factory Code: 00, 01, 02 for 98081, 75 for 131647, 92 for 078439, 65 for 115225, 70 for 135673.
- e) Order No.: last three number.
- f) Product No.: including date, factory, order from 00001;
For example: JW011111161100105306
Explanation, this is Jolywood company produced, used Transparent backsheet and composed by 60 pieces N type 156.75 chamfer mono cells module, the first order the 00001st produced in Sep, 2018.

Serial No. code bar Ver 2:



- a) Company Code:
- b) Date No: example: 1810.
- c) Order No.: after date No three number.
- d) Product No: order from 00001;

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TÜV SÜD Certification and Testing (China) Co., Ltd.
Shanghai Branch
3-13F, No. 151 Heng Tong Road Shanghai, P. R. China
Name of Project Handler: Mingxuan Qi

Form



Data form for critical components and material information

For example: JW2201 001 00001

Explanation, this is Jolywood company produced, the first order the 00001st produced in Jan, 2022

Limited materials combinations:

Encapsulation & None Jolywood Cell	
Encapsulation	None Jolywood Cell
JW-EVA01/JW-EPE01	PJ310BF47B2 PJ311BF46B2
JW-EPE01/JW-EVA01 TF4/F406PS	M210R16BTP10
JW-EPE01/JW-EVA01 TF4/F406PS JW-POE01/JW-EVA01	G12R-A-16BB

Encapsulation & LRF	
LRF	Encapsulation
JW-125S JW-125W JW-125B	TF4/F406PS JW-EPE01/JW-EVA01 JW-POE01/JW-EVA01
JW-125S	TF4/TF4

Encapsulation & Insulation material for string connectors	
Insulation material	Encapsulation
JW-150T	TF4/TF4 JW-EPE01/JW-EVA01 TF4/F406PS

Encapsulation (Rear side & Edge of rear side)	
Rear side	Edge of rear side
F406PS	JW-EVA09B
JW-EVA01	



Form

Data form for critical components and material information



Product Service

Fire test Class A according to UL790 has been evaluated on the following materials:

Kind of component	Type	Manufacturer
Superstrate (Front sheet)	Heat strengthened glass with external AR coating. Thickness = 2.5 or 2.0mm	Xinyi PV Products (Anhui) Holdings Ltd.
Encapsulation	JW-EPE01 (Front side) JW-EVA01 (Rear side)	Jolywood (Jiangsu) Sunwatt Co., Ltd.
Substrate (Backsheet)	Heat strengthened glass Heat strengthened glass with inside white ceramic glaze coating. Thickness = 2.0mm	Xinyi PV Products (Anhui) Holdings Ltd.



SOLAR PLAZA

Solarsystemen und Wärmepumpen

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TÜV SÜD Certification and Testing (China) Co., Ltd.
Shanghai Branch
3-13F, No. 151 Heng Tong Road Shanghai, P. R. China
Name of Project Handler: Mingxuan Qi