

Form



Product Service

Data form for critical components and material information

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, Kelurahan 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) 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) 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) 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	<input type="checkbox"/> I / <input type="checkbox"/> II / <input checked="" type="checkbox"/> III / <input type="checkbox"/> IV / <input type="checkbox"/> N/A
Pollution degree	<input checked="" type="checkbox"/> 1 / <input type="checkbox"/> 2 / <input type="checkbox"/> 3 / <input type="checkbox"/> 4 / <input type="checkbox"/> N/A
Class of protection	<input type="checkbox"/> Class I (PE connected) <input checked="" type="checkbox"/> Class II (isolated) <input type="checkbox"/> Class III <input type="checkbox"/> Others: <input type="checkbox"/> N/A
Product with functional earthing	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A
Environmental conditions / Maximum ambient temperature (°C).....	-40~+40
Equipment mobility / Classification of installation and use	<input type="checkbox"/> transportable / <input type="checkbox"/> portable / <input type="checkbox"/> stationary / <input type="checkbox"/> mobile / <input type="checkbox"/> fixed / <input checked="" type="checkbox"/> permanently installed / <input type="checkbox"/> hand-held / <input type="checkbox"/> body-worn / <input type="checkbox"/> building-in / <input checked="" type="checkbox"/> 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>
<p>Mass of equipment (kg).....:</p>	<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)
Data communication ports: <input checked="" type="checkbox"/> N/A	
Wired ports.....:	<input checked="" type="checkbox"/> N/A <input type="checkbox"/> USB <input type="checkbox"/> LAN <input type="checkbox"/> DALI <input type="checkbox"/> other:
Wireless ports	<input checked="" type="checkbox"/> N/A <input type="checkbox"/> Wifi <input type="checkbox"/> Bluetooth <input type="checkbox"/> NFC <input type="checkbox"/> 4G/LTE <input type="checkbox"/> 5G <input type="checkbox"/> Other:
Data Storage/ Processing.....:	<input type="checkbox"/> N/A <input checked="" type="checkbox"/> Local <input checked="" type="checkbox"/> Cloud

Additional IEC 60601-1 / EN 60601-1 / ANSI/AAMI ES60601-1 / CAN/CSA-C22.2 No. 60601-1: <input checked="" type="checkbox"/> N/A	
Applied part type	<input type="checkbox"/> B <input type="checkbox"/> BF <input type="checkbox"/> CF <input type="checkbox"/> Defibrillation-Proof <input checked="" type="checkbox"/> No AP
Software Version.....:	N/A

General product information and other remarks:								
Main label / Warning Markings:	<table border="1"> <tr> <td rowspan="2"> 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: JWC2 Address:Kaiyang Rd.,Jiangyan Economic Development Zone,Taizhou,Jiangsu,China </td> <td> Test Conditions STC INPI BSI Short-Circuit Current (Isc TOL±5%) 15.77A 17.35A 19.28A Open-Circuit Voltage (Voc TOL±4%) 47.66V 47.80V Rated Max Power (Pmax TOL ±3%) 610W 671.0W Current at Pmax (Imp) 14.91A 16.32A Voltage at Pmax (Vmp) 40.91V 41.11V Min. Design Load (Po)(DSF=1.5) 3600/1600 STC: AM=1.5, E=1000W/m², Tc=25°C INPI: Front1000W/m², Rear135W/m² BSI: Front1000W/m², Rear300W/m² </td> <td> 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%, ϕbrmax =80±10% </td> </tr> <tr> <td> <table border="1"> <tr> <td rowspan="2"> 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: JWC2 Address:Kaiyang Rd.,Jiangyan Economic Development Zone,Taizhou,Jiangsu,China </td> <td> Test Conditions STC INPI BSI Short-Circuit Current (Isc TOL±5%) 15.77A 17.35A 19.28A Open-Circuit Voltage (Voc TOL±4%) 47.66V 47.80V Rated Max Power (Pmax TOL ±3%) 610W 671.0W Current at Pmax (Imp) 14.91A 16.32A Voltage at Pmax (Vmp) 40.91V 41.11V Min. Design Load (Po)(DSF=1.5) 3600/1600 STC: AM=1.5, E=1000W/m², Tc=25°C INPI: Front1000W/m², Rear135W/m² BSI: Front1000W/m², Rear300W/m² </td> <td> 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%, ϕbrmax =80±10% </td> </tr> </table> </td> </tr> </table>	 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: JWC2 Address:Kaiyang Rd.,Jiangyan Economic Development Zone,Taizhou,Jiangsu,China	Test Conditions STC INPI BSI Short-Circuit Current (Isc TOL±5%) 15.77A 17.35A 19.28A Open-Circuit Voltage (Voc TOL±4%) 47.66V 47.80V Rated Max Power (Pmax TOL ±3%) 610W 671.0W Current at Pmax (Imp) 14.91A 16.32A Voltage at Pmax (Vmp) 40.91V 41.11V Min. Design Load (Po)(DSF=1.5) 3600/1600 STC: AM=1.5, E=1000W/m², Tc=25°C INPI: Front1000W/m², Rear135W/m² BSI: Front1000W/m², Rear300W/m²	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%, ϕbrmax =80±10% 	<table border="1"> <tr> <td rowspan="2"> 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: JWC2 Address:Kaiyang Rd.,Jiangyan Economic Development Zone,Taizhou,Jiangsu,China </td> <td> Test Conditions STC INPI BSI Short-Circuit Current (Isc TOL±5%) 15.77A 17.35A 19.28A Open-Circuit Voltage (Voc TOL±4%) 47.66V 47.80V Rated Max Power (Pmax TOL ±3%) 610W 671.0W Current at Pmax (Imp) 14.91A 16.32A Voltage at Pmax (Vmp) 40.91V 41.11V Min. Design Load (Po)(DSF=1.5) 3600/1600 STC: AM=1.5, E=1000W/m², Tc=25°C INPI: Front1000W/m², Rear135W/m² BSI: Front1000W/m², Rear300W/m² </td> <td> 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%, ϕbrmax =80±10% </td> </tr> </table>	 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: JWC2 Address:Kaiyang Rd.,Jiangyan Economic Development Zone,Taizhou,Jiangsu,China	Test Conditions STC INPI BSI Short-Circuit Current (Isc TOL±5%) 15.77A 17.35A 19.28A Open-Circuit Voltage (Voc TOL±4%) 47.66V 47.80V Rated Max Power (Pmax TOL ±3%) 610W 671.0W Current at Pmax (Imp) 14.91A 16.32A Voltage at Pmax (Vmp) 40.91V 41.11V Min. Design Load (Po)(DSF=1.5) 3600/1600 STC: AM=1.5, E=1000W/m², Tc=25°C INPI: Front1000W/m², Rear135W/m² BSI: Front1000W/m², Rear300W/m²	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%, ϕbrmax =80±10%
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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



<p>Jolywood Safety information</p> <p>Jolywood(Taizhou) Solar Technology Co.,Ltd.</p> <p>Model Type JW-HD132N-720</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%) 18.56A 20.42A 22.68A</p> <p>Open-Circuit Voltage (Voc TOL±4%) 49.29V 49.44V</p> <p>Rated Max Power (Pmax TOL ±3%) 720W 792.0W</p> <p>Current at Pmax (Imp) 17.48A 19.13A</p> <p>Voltage at Pmax (Vmp) 41.19V 41.40V</p> <p>Min. Design Load (Pa)(DSF=1.5) 3600/1600</p> <p>STC: AM-1.5, E=1000W/m², Tc=25°C INPI: Front1000W/m², Rear135W/m² 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: $\phi_{fr} = 99\pm 3\%$, $\phi_{br} = 79\pm 10\%$, $\phi_{rbr} = 80\pm 10\%$</p> <p>CE, TÜV SUD, IEC, BSI, Fire, High Voltage, No Lead</p>
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<p>中來光电 JOLYWOOD Safety information</p> <p>Jolywood(Taizhou) Solar Technology Co.,Ltd.</p> <p>Model Type JW-MD66N-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 18.15A 20.17A</p> <p>Open-Circuit Voltage (Voc TOL±4%) 50.27V 50.42V</p> <p>Rated Max Power (Pmax TOL ±3%) 660W 726.0W</p> <p>Current at Pmax (Imp) 15.66A 17.14A</p> <p>Voltage at Pmax (Vmp) 42.14V 42.35V</p> <p>Min. Design Load (Pa)(DSF=1.5) 3600/1600</p> <p>STC: AM-1.5, E=1000W/m², Tc=25°C INPI: Front1000W/m², Rear135W/m² 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: $\phi_{fr} = 98\pm 5\%$, $\phi_{br} = 85\pm 10\%$, $\phi_{rbr} = 85\pm 10\%$</p> <p>CE, TÜV SUD, IEC, BSI, Fire, High Voltage, No Lead</p>
<p>中來光电 JOLYWOOD Safety information</p> <p>Jolywood(Taizhou) Solar Technology Co.,Ltd.</p> <p>Model Type JW-MD66N-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 18.15A 20.17A</p> <p>Open-Circuit Voltage (Voc TOL±4%) 50.27V 50.42V</p> <p>Rated Max Power (Pmax TOL ±3%) 660W 726.0W</p> <p>Current at Pmax (Imp) 15.66A 17.14A</p> <p>Voltage at Pmax (Vmp) 42.14V 42.35V</p> <p>Min. Design Load (Pa)(DSF=1.5) 3600/1600</p> <p>STC: AM-1.5, E=1000W/m², Tc=25°C INPI: Front1000W/m², Rear135W/m² 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: $\phi_{fr} = 98\pm 5\%$, $\phi_{br} = 85\pm 10\%$, $\phi_{rbr} = 85\pm 10\%$</p> <p>CE, TÜV SUD, IEC, BSI, Fire, High Voltage, No Lead</p>
<p>中來光电 NIWA Safety information</p> <p>Jolywood(Taizhou) Solar Technology Co.,Ltd.</p> <p>Model Type JW-MD48N-480</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%) 16.60A 18.26A 20.29A</p> <p>Open-Circuit Voltage (Voc TOL±4%) 36.37V 36.48V</p> <p>Rated Max Power (Pmax TOL ±3%) 480W 528W</p> <p>Current at Pmax (Imp) 15.79A 17.28A</p> <p>Voltage at Pmax (Vmp) 30.40V 30.55V</p> <p>Min. Design Load (Pa)(DSF=1.5) 3600/1600</p> <p>STC: AM-1.5, E=1000W/m², Tc=25°C INPI: Front1000W/m², Rear135W/m² 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: $\phi_{fr} = 98\pm 5\%$, $\phi_{br} = 85\pm 10\%$, $\phi_{rbr} = 85\pm 10\%$</p> <p>CE, TÜV SUD, IEC, BSI, Fire, High Voltage, No Lead</p>
<p>中來光电 NIWA Safety information</p> <p>Jolywood(Taizhou) Solar Technology Co.,Ltd.</p> <p>Model Type JW-MD48N-480</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%) 16.60A 18.26A 20.29A</p> <p>Open-Circuit Voltage (Voc TOL±4%) 36.37V 36.48V</p> <p>Rated Max Power (Pmax TOL ±3%) 480W 528W</p> <p>Current at Pmax (Imp) 15.79A 17.28A</p> <p>Voltage at Pmax (Vmp) 30.40V 30.55V</p> <p>Min. Design Load (Pa)(DSF=1.5) 3600/1600</p> <p>STC: AM-1.5, E=1000W/m², Tc=25°C INPI: Front1000W/m², Rear135W/m² 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: $\phi_{fr} = 98\pm 5\%$, $\phi_{br} = 85\pm 10\%$, $\phi_{rbr} = 85\pm 10\%$</p> <p>CE, TÜV SUD, IEC, BSI, Fire, High Voltage, No Lead</p>
<p>中來光电 JOLYWOOD Safety information</p> <p>Jolywood(Taizhou) Solar Technology Co.,Ltd.</p> <p>Model Type JW-MD66N2-660</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)(DSF=1.5) 3600/1600</p> <p>STC: AM-1.5, E=1000W/m², Tc=25°C INPI: Front1000W/m², Rear135W/m² 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: $\phi_{fr} = 98\pm 5\%$, $\phi_{br} = 70\pm 10\%$, $\phi_{rbr} = 70\pm 10\%$</p> <p>CE, TÜV SUD, IEC, BSI, Fire, High Voltage, No Lead</p>

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 Revision: 10
 Date: 2026-02-10
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 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

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<p>安全信息 Jolywood(Taizhou) Solar Technology Co.,Ltd. Model Type JW-HD108N2-42-530 Product Name Solar Module Fire Rating Class C Connector: see manual for designated connectors Jolywood, JWC2 Address: Kaiyang Rd, Jiangyan Economic Development Zone, Taizhou, Jiangsu, China</p>	<p>Test Conditions</p> <table border="1"> <thead> <tr> <th></th> <th>STC</th> <th>BNPI</th> <th>BSI</th> </tr> </thead> <tbody> <tr> <td>Short-Circuit Current (Isc TOL±5%)</td> <td>16.14A</td> <td>17.67A</td> <td>19.53A</td> </tr> <tr> <td>Open-Circuit Voltage (Voc TOL±4%)</td> <td>40.23V</td> <td>40.31V</td> <td></td> </tr> <tr> <td>Rated Max Power (Pmax TOL ±3%)</td> <td>530W</td> <td>580.1W</td> <td></td> </tr> <tr> <td>Current at Pmax (Imp)</td> <td>15.33A</td> <td>16.71A</td> <td></td> </tr> <tr> <td>Voltage at Pmax (Vmp)</td> <td>34.58V</td> <td>34.72V</td> <td></td> </tr> <tr> <td>Min. Design Load (Pa)(DSF=1.5)</td> <td colspan="3">3600/1600</td> </tr> </tbody> </table> <p>STC: AM=1.5, E=1000W/m², Tc=25°C BNPI: Front1000W/m², Rear135W/m² BSI: Front1000W/m², Rear300W/m²</p>		STC	BNPI	BSI	Short-Circuit Current (Isc TOL±5%)	16.14A	17.67A	19.53A	Open-Circuit Voltage (Voc TOL±4%)	40.23V	40.31V		Rated Max Power (Pmax TOL ±3%)	530W	580.1W		Current at Pmax (Imp)	15.33A	16.71A		Voltage at Pmax (Vmp)	34.58V	34.72V		Min. Design Load (Pa)(DSF=1.5)	3600/1600			<table border="1"> <thead> <tr> <th>Module T_{amb}(°C)</th> <th>Power Selection</th> <th>Maximum Overcurrent Protection Rating</th> <th>Maximum System Voltage</th> <th>PV Module Classification</th> <th>Bifaciality coefficient: (β_{fr}=9±5%, β_{br}=70±10%, β_{fr+br}=70±10%)</th> </tr> </thead> <tbody> <tr> <td>70</td> <td>0~5W</td> <td>35A</td> <td>1500V</td> <td>Class II</td> <td></td> </tr> </tbody> </table>	Module T _{amb} (°C)	Power Selection	Maximum Overcurrent Protection Rating	Maximum System Voltage	PV Module Classification	Bifaciality coefficient: (β _{fr} =9±5%, β _{br} =70±10%, β _{fr+br} =70±10%)	70	0~5W	35A	1500V	Class II																																																																																									
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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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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



Product Service

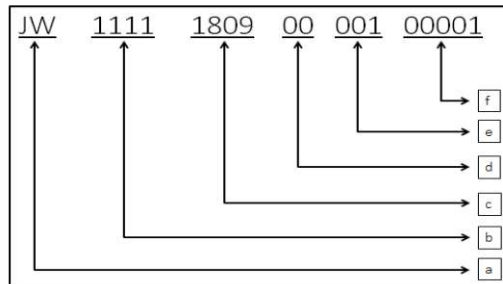
Data form for critical components and material information

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 for156.75 chamfer, 2 for157.35chamfer, 3for158.75chamfer,4 for158.75 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) Porducted No: including date, factory, order from 00001;
 For essxample: JW011111161100105306
 Explanation, this is Jolywood company porducted, 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) Porducted No: order from 00001;



Form



Data form for critical components and material information

For example: JW2201 001 00001
 Explanation, this is Jolywood company producted, 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



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.

