



# CERTIFICATE OF PRODUCT CERTIFICATION

## SOLAR PRODUCT CERTIFICATE

CERTIFICATE NO.: CQC21024319712

Valid from: Mar.07,2023

Valid until:long-term

**NAME AND REGISTERED ADDRESS OF THE APPLICANT** Tongwei Solar (Hefei) Co., Ltd.  
No.888, Changning Road, High-tech District, Hefei City, Anhui Province, 230088, P.R. China

**NAME AND REGISTERED ADDRESS OF THE MANUFACTURER** Tongwei Solar (Hefei) Co., Ltd.  
No.888, Changning Road, High-tech District, Hefei City, Anhui Province, 230088, P.R. China

**NAME AND LOCATION OF THE FACTORY** Tongwei Solar (Hefei) Co., Ltd.  
NO.888 Changning Road, High-tech District, Hefei, Anhui,P.R.China

**PRODUCT NAME, MODEL AND SPECIFICATION** PV modules  
See Appendix

**THE STANDARDS AND TECHNICAL REQUIREMENTS FOR THE PRODUCTS** IEC61215-1:2016;IEC 61215-1-1:2016;IEC 61215-2:2016

**TYPE OF CERTIFICATION SCHEMES** Type Testing of Product + Initial Factory Inspection + Follow up Factory Inspection

This is to certify that the above mentioned product(s) complies with the requirements of certification rules of CQC33-471541-2017.

Date of original issued: Nov.05,2021

The validity of the certificate is subject to positive result of the regular follow up inspection by issuing certification body.

The certificate information is available through the QR code below or CNCA's website: [www.cnca.gov.cn](http://www.cnca.gov.cn)



SIGNATURE:

谢肇煦



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| 组件型号          | Voc<br>[V] | Isc<br>[A] | Vmp<br>[V] | Imp<br>[A] | Pmax<br>[W] | 系统电<br>压 [V] | 额定熔断<br>电流[A] |
|---------------|------------|------------|------------|------------|-------------|--------------|---------------|
| TH390CM5-72SD | 44.20      | 11.19      | 36.69      | 10.66      | 390         | 1500         | 20            |
| TH385CM5-72SD | 44.10      | 11.13      | 36.60      | 10.55      | 385         | 1500         | 20            |
| TH380CM5-72SD | 44.10      | 11.03      | 36.60      | 10.41      | 380         | 1500         | 20            |
| TH375CM5-72SD | 44.00      | 10.98      | 36.52      | 10.30      | 375         | 1500         | 20            |
| TH370CM5-72SD | 43.90      | 10.86      | 36.44      | 10.18      | 370         | 1500         | 20            |
| TH365CM5-72SD | 43.60      | 10.62      | 36.19      | 10.11      | 365         | 1500         | 20            |
| TH360CM5-72SD | 43.40      | 10.55      | 36.02      | 10.02      | 360         | 1500         | 20            |
| TH355CM5-72SD | 43.20      | 10.48      | 35.86      | 9.93       | 355         | 1500         | 20            |
| TH350CM5-72SD | 43.00      | 10.41      | 35.69      | 9.83       | 350         | 1500         | 20            |
| TH325CM5-60SD | 44.20      | 9.33       | 36.69      | 8.89       | 325         | 1500         | 20            |
| TH320CM5-60SD | 44.10      | 9.28       | 36.60      | 8.77       | 320         | 1500         | 20            |
| TH315CM5-60SD | 44.10      | 9.19       | 36.60      | 8.63       | 315         | 1500         | 20            |
| TH310CM5-60SD | 44.00      | 9.15       | 36.52      | 8.52       | 310         | 1500         | 20            |
| TH305CM5-60SD | 43.90      | 9.05       | 36.44      | 8.40       | 305         | 1500         | 20            |
| TH300CM5-60SD | 43.20      | 8.90       | 35.86      | 8.39       | 300         | 1500         | 20            |

**NOTE:** This appendix is valid when used with the certificate.



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|------------------|-------|-------|-------|-------|-----|------|----|
| TH295CM5-60SD    | 43.00 | 8.83  | 35.69 | 8.29  | 295 | 1500 | 20 |
| TH290CM5-60SD    | 42.80 | 8.76  | 35.52 | 8.19  | 290 | 1500 | 20 |
| TH410PM5-72SD    | 45.30 | 11.43 | 37.50 | 10.93 | 410 | 1500 | 20 |
| TH405PM5-72SD    | 45.30 | 11.39 | 37.40 | 10.83 | 405 | 1500 | 20 |
| TH400PM5-72SD    | 45.20 | 11.35 | 37.30 | 10.72 | 400 | 1500 | 20 |
| TH395PM5-72SD    | 45.20 | 11.31 | 37.20 | 10.62 | 395 | 1500 | 20 |
| TH390PM5-72SD    | 45.10 | 11.27 | 37.10 | 10.51 | 390 | 1500 | 20 |
| TH440PM5-72SDA   | 46.50 | 12.15 | 38.60 | 11.43 | 440 | 1500 | 20 |
| TH435PM5-72SDA   | 46.40 | 12.11 | 38.51 | 11.32 | 435 | 1500 | 20 |
| TH430PM5-72SDA   | 46.30 | 12.06 | 38.43 | 11.22 | 430 | 1500 | 20 |
| TH425PM5-72SDA   | 46.20 | 12.01 | 38.35 | 11.11 | 425 | 1500 | 20 |
| TH420PM5-72SDA   | 46.10 | 11.96 | 38.26 | 11.00 | 420 | 1500 | 20 |
| TH415PM5-72SDA   | 46.00 | 11.90 | 38.18 | 10.90 | 415 | 1500 | 20 |
| TH410PM5-72SDA   | 45.90 | 11.85 | 38.10 | 10.79 | 410 | 1500 | 20 |
| TH440PM5-72SDA-F | 46.50 | 12.15 | 38.60 | 11.43 | 440 | 1500 | 20 |
| TH435PM5-72SDA-F | 46.40 | 12.11 | 38.51 | 11.32 | 435 | 1500 | 20 |
| TH430PM5-72SDA-F | 46.30 | 12.06 | 38.43 | 11.22 | 430 | 1500 | 20 |

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|-------------------|-------|-------|-------|-------|-----|------|----|
| TH425PM5-72SDA-F  | 46.20 | 12.01 | 38.35 | 11.11 | 425 | 1500 | 20 |
| TH420PM5-72SDA-F  | 46.10 | 11.96 | 38.26 | 11.00 | 420 | 1500 | 20 |
| TH415PM5-72SDA-F  | 46.00 | 11.90 | 38.18 | 10.90 | 415 | 1500 | 20 |
| TH410PM5-72SDA-F  | 45.90 | 11.85 | 38.10 | 10.79 | 410 | 1500 | 20 |
| TH410PMB5-72SD    | 45.80 | 11.55 | 37.50 | 10.93 | 410 | 1500 | 20 |
| TH405PMB5-72SD    | 45.70 | 11.51 | 37.40 | 10.83 | 405 | 1500 | 20 |
| TH400PMB5-72SD    | 45.70 | 11.47 | 37.30 | 10.72 | 400 | 1500 | 20 |
| TH395PMB5-72SD    | 45.60 | 11.43 | 37.20 | 10.62 | 395 | 1500 | 20 |
| TH390PMB5-72SD    | 45.60 | 11.41 | 37.10 | 10.51 | 390 | 1500 | 20 |
| TH440PMB5-72SDA   | 46.50 | 12.15 | 37.80 | 11.64 | 440 | 1500 | 20 |
| TH435PMB5-72SDA   | 46.40 | 12.11 | 37.70 | 11.54 | 435 | 1500 | 20 |
| TH430PMB5-72SDA   | 46.30 | 12.06 | 37.60 | 11.44 | 430 | 1500 | 20 |
| TH425PMB5-72SDA   | 46.20 | 12.01 | 37.50 | 11.33 | 425 | 1500 | 20 |
| TH420PMB5-72SDA   | 46.10 | 11.96 | 37.40 | 11.23 | 420 | 1500 | 20 |
| TH415PMB5-72SDA   | 46.00 | 11.90 | 37.30 | 11.13 | 415 | 1500 | 20 |
| TH410PMB5-72SDA   | 45.90 | 11.85 | 37.20 | 11.02 | 410 | 1500 | 20 |
| TH440PMB5-72SDA-F | 46.50 | 12.15 | 37.80 | 11.64 | 440 | 1500 | 20 |

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|-------------------|-------|-------|-------|-------|-----|------|----|
| TH435PMB5-72SDA-F | 46.40 | 12.11 | 37.70 | 11.54 | 435 | 1500 | 20 |
| TH430PMB5-72SDA-F | 46.30 | 12.06 | 37.60 | 11.44 | 430 | 1500 | 20 |
| TH425PMB5-72SDA-F | 46.20 | 12.01 | 37.50 | 11.33 | 425 | 1500 | 20 |
| TH420PMB5-72SDA-F | 46.10 | 11.96 | 37.40 | 11.23 | 420 | 1500 | 20 |
| TH415PMB5-72SDA-F | 46.00 | 11.90 | 37.30 | 11.13 | 415 | 1500 | 20 |
| TH410PMB5-72SDA-F | 45.90 | 11.85 | 37.20 | 11.02 | 410 | 1500 | 20 |
| TH340PM5-60SD     | 45.20 | 9.51  | 37.40 | 9.09  | 340 | 1500 | 20 |
| TH335PM5-60SD     | 45.20 | 9.49  | 37.30 | 8.98  | 335 | 1500 | 20 |
| TH330PM5-60SD     | 45.10 | 9.45  | 37.20 | 8.87  | 330 | 1500 | 20 |
| TH325PM5-60SD     | 45.10 | 9.42  | 37.10 | 8.76  | 325 | 1500 | 20 |
| TH365PM5-60SDA    | 46.60 | 10.21 | 37.80 | 9.66  | 365 | 1500 | 20 |
| TH360PM5-60SDA    | 46.40 | 10.11 | 37.70 | 9.55  | 360 | 1500 | 20 |
| TH355PM5-60SDA    | 46.30 | 10.05 | 37.60 | 9.44  | 355 | 1500 | 20 |
| TH350PM5-60SDA    | 46.20 | 9.99  | 37.50 | 9.33  | 350 | 1500 | 20 |
| TH345PM5-60SDA    | 46.10 | 9.93  | 37.40 | 9.22  | 345 | 1500 | 20 |
| TH340PM5-60SDA    | 46.00 | 9.87  | 37.30 | 9.12  | 340 | 1500 | 20 |
| TH365PM5-60SDA-F  | 46.60 | 10.21 | 37.80 | 9.66  | 365 | 1500 | 20 |

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|-------------------|-------|-------|-------|------|-----|------|----|
| TH360PM5-60SDA-F  | 46.40 | 10.11 | 37.70 | 9.55 | 360 | 1500 | 20 |
| TH355PM5-60SDA-F  | 46.30 | 10.05 | 37.60 | 9.44 | 355 | 1500 | 20 |
| TH350PM5-60SDA-F  | 46.20 | 9.99  | 37.50 | 9.33 | 350 | 1500 | 20 |
| TH345PM5-60SDA-F  | 46.10 | 9.93  | 37.40 | 9.22 | 345 | 1500 | 20 |
| TH340PM5-60SDA-F  | 46.00 | 9.87  | 37.30 | 9.12 | 340 | 1500 | 20 |
| TH340PMB5-60SD    | 45.20 | 9.51  | 37.40 | 9.09 | 340 | 1500 | 20 |
| TH335PMB5-60SD    | 45.20 | 9.49  | 37.30 | 8.98 | 335 | 1500 | 20 |
| TH330PMB5-60SD    | 45.10 | 9.45  | 37.20 | 8.87 | 330 | 1500 | 20 |
| TH325PMB5-60SD    | 45.10 | 9.42  | 37.10 | 8.76 | 325 | 1500 | 20 |
| TH365PMB5-60SDA   | 46.60 | 10.21 | 37.90 | 9.63 | 365 | 1500 | 20 |
| TH360PMB5-60SDA   | 46.40 | 10.11 | 37.70 | 9.55 | 360 | 1500 | 20 |
| TH355PMB5-60SDA   | 46.30 | 10.05 | 37.60 | 9.44 | 355 | 1500 | 20 |
| TH350PMB5-60SDA   | 46.20 | 9.99  | 37.50 | 9.33 | 350 | 1500 | 20 |
| TH345PMB5-60SDA   | 46.10 | 9.93  | 37.40 | 9.22 | 345 | 1500 | 20 |
| TH340PMB5-60SDA   | 46.00 | 9.87  | 37.30 | 9.12 | 340 | 1500 | 20 |
| TH365PMB5-60SDA-F | 46.60 | 10.21 | 37.90 | 9.63 | 365 | 1500 | 20 |
| TH360PMB5-60SDA-F | 46.40 | 10.11 | 37.70 | 9.55 | 360 | 1500 | 20 |

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|-------------------|-------|-------|-------|-------|-----|------|----|
| TH355PMB5-60SDA-F | 46.30 | 10.05 | 37.60 | 9.44  | 355 | 1500 | 20 |
| TH350PMB5-60SDA-F | 46.20 | 9.99  | 37.50 | 9.33  | 350 | 1500 | 20 |
| TH345PMB5-60SDA-F | 46.10 | 9.93  | 37.40 | 9.22  | 345 | 1500 | 20 |
| TH340PMB5-60SDA-F | 46.00 | 9.87  | 37.30 | 9.12  | 340 | 1500 | 20 |
| TH660PMB6-68SDC   | 46.40 | 18.26 | 38.50 | 17.16 | 660 | 1500 | 30 |
| TH655PMB6-68SDC   | 46.30 | 18.15 | 38.40 | 17.06 | 655 | 1500 | 30 |
| TH650PMB6-68SDC   | 46.20 | 18.03 | 38.35 | 16.95 | 650 | 1500 | 30 |
| TH645PMB6-68SDC   | 46.10 | 17.93 | 38.26 | 16.86 | 645 | 1500 | 30 |
| TH640PMB6-68SDC   | 46.00 | 17.83 | 38.18 | 16.76 | 640 | 1500 | 30 |
| TH635PMB6-68SDC   | 45.90 | 17.73 | 38.10 | 16.67 | 635 | 1500 | 30 |
| TH630PMB6-68SDC   | 45.80 | 17.63 | 38.01 | 16.57 | 630 | 1500 | 30 |
| TH625PMB6-68SDC   | 45.70 | 17.53 | 37.93 | 16.48 | 625 | 1500 | 30 |
| TH670PMB6-69SDC   | 47.10 | 18.26 | 39.10 | 17.16 | 670 | 1500 | 30 |
| TH665PMB6-69SDC   | 47.00 | 18.16 | 39.00 | 17.07 | 665 | 1500 | 30 |
| TH660PMB6-69SDC   | 46.90 | 18.06 | 38.90 | 16.98 | 660 | 1500 | 30 |
| TH655PMB6-69SDC   | 46.80 | 17.97 | 38.80 | 16.89 | 655 | 1500 | 30 |
| TH650PMB6-69SDC   | 46.70 | 17.84 | 38.80 | 16.77 | 650 | 1500 | 30 |

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|-----------------|-------|-------|-------|-------|-----|------|----|
| TH645PMB6-69SDC | 46.60 | 17.74 | 38.70 | 16.68 | 645 | 1500 | 30 |
| TH640PMB6-69SDC | 46.50 | 17.64 | 38.60 | 16.58 | 640 | 1500 | 30 |
| TH635PMB6-69SDC | 46.40 | 17.54 | 38.50 | 16.49 | 635 | 1500 | 30 |
| TH630PMB6-65SDC | 44.40 | 18.19 | 36.90 | 17.10 | 630 | 1500 | 30 |
| TH625PMB6-65SDC | 44.30 | 18.08 | 36.80 | 17.00 | 625 | 1500 | 30 |
| TH620PMB6-65SDC | 44.20 | 17.98 | 36.69 | 16.90 | 620 | 1500 | 30 |
| TH615PMB6-65SDC | 44.10 | 17.87 | 36.60 | 16.81 | 615 | 1500 | 30 |
| TH610PMB6-65SDC | 44.00 | 17.77 | 36.52 | 16.72 | 610 | 1500 | 30 |
| TH605PMB6-65SDC | 43.90 | 17.66 | 36.44 | 16.63 | 605 | 1500 | 30 |
| TH600PMB6-65SDC | 43.90 | 17.52 | 36.44 | 16.47 | 600 | 1500 | 30 |
| TH555PMB6-58SDC | 47.20 | 15.07 | 39.20 | 14.17 | 555 | 1500 | 30 |
| TH550PMB6-58SDC | 47.10 | 14.97 | 39.09 | 14.07 | 550 | 1500 | 30 |
| TH545PMB6-58SDC | 47.00 | 14.86 | 39.01 | 13.98 | 545 | 1500 | 30 |
| TH540PMB6-58SDC | 46.90 | 14.76 | 38.93 | 13.89 | 540 | 1500 | 30 |
| TH535PMB6-58SDC | 46.80 | 14.65 | 38.84 | 13.79 | 535 | 1500 | 30 |
| TH530PMB6-58SDC | 46.70 | 14.55 | 38.76 | 13.67 | 530 | 1500 | 30 |
| TH550PMB6-57SDC | 46.40 | 15.20 | 38.50 | 14.29 | 550 | 1500 | 30 |

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|-----------------|-------|-------|-------|-------|-----|------|---------|
| TH545PMB6-57SDC | 46.30 | 15.09 | 38.40 | 14.20 | 545 | 1500 | 30      |
| TH540PMB6-57SDC | 46.20 | 14.98 | 38.30 | 14.10 | 540 | 1500 | 30      |
| TH535PMB6-57SDC | 46.10 | 14.87 | 38.30 | 13.98 | 535 | 1500 | 30      |
| TH530PMB6-57SDC | 46.00 | 14.77 | 38.20 | 13.88 | 530 | 1500 | 30      |
| TH525PMB6-57SDC | 45.90 | 14.66 | 38.10 | 13.78 | 525 | 1500 | 30      |
| TH520PMB6-57SDC | 45.80 | 14.55 | 38.00 | 13.68 | 520 | 1500 | 30      |
| TH525PMB6-54SDC | 44.50 | 15.20 | 37.00 | 14.19 | 525 | 1500 | 30      |
| TH520PMB6-54SDC | 44.40 | 15.01 | 36.90 | 14.11 | 520 | 1500 | 30      |
| TH515PMB6-54SDC | 44.30 | 14.90 | 36.77 | 14.01 | 515 | 1500 | 30      |
| TH510PMB6-54SDC | 44.20 | 14.79 | 36.69 | 13.90 | 510 | 1500 | 30      |
| TH505PMB6-54SDC | 44.10 | 14.68 | 36.60 | 13.80 | 505 | 1500 | 30      |
| TH500PMB6-54SDC | 44.00 | 14.57 | 36.52 | 13.70 | 500 | 1500 | 30      |
| TWMPD-78HD570   | 53.05 | 13.83 | 43.60 | 13.07 | 570 | 1500 | 30 / 25 |
| TWMPD-78HD575   | 53.25 | 13.88 | 43.80 | 13.13 | 575 | 1500 | 30 / 25 |
| TWMPD-78HD580   | 53.45 | 13.93 | 44.00 | 13.18 | 580 | 1500 | 30 / 25 |
| TWMPD-78HD585   | 53.65 | 13.98 | 44.20 | 13.24 | 585 | 1500 | 30 / 25 |
| TWMPD-78HD590   | 53.85 | 14.03 | 44.40 | 13.29 | 590 | 1500 | 30 / 25 |

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|-----------------|-------|-------|-------|-------|-----|------|---------|
| TWMPD-78HD595   | 54.05 | 14.08 | 44.60 | 13.34 | 595 | 1500 | 30 / 25 |
| TWMPD-78HD600   | 54.25 | 14.13 | 44.80 | 13.39 | 600 | 1500 | 30 / 25 |
| TWMPD-78HD605   | 54.45 | 14.18 | 45.00 | 13.44 | 605 | 1500 | 30 / 25 |
| TWMPD-78HD610   | 54.65 | 14.23 | 45.20 | 13.50 | 610 | 1500 | 30 / 25 |
| TWMPD-78HD615   | 54.85 | 14.28 | 45.40 | 13.55 | 615 | 1500 | 30 / 25 |
| TW570MBAP-156-D | 53.05 | 13.83 | 43.60 | 13.07 | 570 | 1500 | 30 / 25 |
| TW575MBAP-156-D | 53.25 | 13.88 | 43.80 | 13.13 | 575 | 1500 | 30 / 25 |
| TW580MBAP-156-D | 53.45 | 13.93 | 44.00 | 13.18 | 580 | 1500 | 30 / 25 |
| TW585MBAP-156-D | 53.65 | 13.98 | 44.20 | 13.24 | 585 | 1500 | 30 / 25 |
| TW590MBAP-156-D | 53.85 | 14.03 | 44.40 | 13.29 | 590 | 1500 | 30 / 25 |
| TW595MBAP-156-D | 54.05 | 14.08 | 44.60 | 13.34 | 595 | 1500 | 30 / 25 |
| TW600MBAP-156-D | 54.25 | 14.13 | 44.80 | 13.39 | 600 | 1500 | 30 / 25 |
| TW605MBAP-156-D | 54.45 | 14.18 | 45.00 | 13.44 | 605 | 1500 | 30 / 25 |
| TW610MBAP-156-D | 54.65 | 14.23 | 45.20 | 13.50 | 610 | 1500 | 30 / 25 |
| TW615MBAP-156-D | 54.85 | 14.28 | 45.40 | 13.55 | 615 | 1500 | 30 / 25 |
| TW570MBGP-156-D | 53.05 | 13.83 | 43.60 | 13.07 | 570 | 1500 | 30 / 25 |
| TW575MBGP-156-D | 53.25 | 13.88 | 43.80 | 13.13 | 575 | 1500 | 30 / 25 |

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|-----------------|-------|-------|-------|-------|-----|------|---------|
| TW580MBGP-156-D | 53.45 | 13.93 | 44.00 | 13.18 | 580 | 1500 | 30 / 25 |
| TW585MBGP-156-D | 53.65 | 13.98 | 44.20 | 13.24 | 585 | 1500 | 30 / 25 |
| TW590MBGP-156-D | 53.85 | 14.03 | 44.40 | 13.29 | 590 | 1500 | 30 / 25 |
| TW595MBGP-156-D | 54.05 | 14.08 | 44.60 | 13.34 | 595 | 1500 | 30 / 25 |
| TW600MBGP-156-D | 54.25 | 14.13 | 44.80 | 13.39 | 600 | 1500 | 30 / 25 |
| TWMPD-72HD525   | 49.10 | 13.63 | 40.96 | 12.82 | 525 | 1500 | 30 / 25 |
| TWMPD-72HD530   | 49.30 | 13.68 | 41.16 | 12.88 | 530 | 1500 | 30 / 25 |
| TWMPD-72HD535   | 49.50 | 13.73 | 41.36 | 12.94 | 535 | 1500 | 30 / 25 |
| TWMPD-72HD540   | 49.70 | 13.78 | 41.56 | 13.00 | 540 | 1500 | 30 / 25 |
| TWMPD-72HD545   | 49.90 | 13.83 | 41.76 | 13.05 | 545 | 1500 | 30 / 25 |
| TWMPD-72HD550   | 50.10 | 13.88 | 41.96 | 13.11 | 550 | 1500 | 30 / 25 |
| TWMPD-72HD555   | 50.30 | 13.93 | 42.16 | 13.16 | 555 | 1500 | 30 / 25 |
| TWMPD-72HD560   | 50.50 | 13.98 | 42.36 | 13.21 | 560 | 1500 | 30 / 25 |
| TWMPD-72HD565   | 50.70 | 14.03 | 42.56 | 13.29 | 560 | 1500 | 30 / 25 |
| TW525MBAP-144-D | 49.10 | 13.63 | 40.96 | 12.82 | 525 | 1500 | 30 / 25 |
| TW530MBAP-144-D | 49.30 | 13.68 | 41.16 | 12.88 | 530 | 1500 | 30 / 25 |
| TW535MBAP-144-D | 49.50 | 13.73 | 41.36 | 12.94 | 535 | 1500 | 30 / 25 |

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| TW540MBAP-144-D | 49.70 | 13.78 | 41.56 | 13.00 | 540 | 1500 | 30 / 25 |
| TW545MBAP-144-D | 49.90 | 13.83 | 41.76 | 13.05 | 545 | 1500 | 30 / 25 |
| TW550MBAP-144-D | 50.10 | 13.88 | 41.96 | 13.11 | 550 | 1500 | 30 / 25 |
| TW555MBAP-144-D | 50.30 | 13.93 | 42.16 | 13.16 | 555 | 1500 | 30 / 25 |
| TW560MBAP-144-D | 50.50 | 13.98 | 42.36 | 13.21 | 560 | 1500 | 30 / 25 |
| TW565MBAP-144-D | 50.70 | 14.03 | 42.56 | 13.29 | 560 | 1500 | 30 / 25 |
| TW525MBGP-144-D | 49.10 | 13.63 | 40.96 | 12.82 | 525 | 1500 | 30 / 25 |
| TW530MBGP-144-D | 49.30 | 13.68 | 41.16 | 12.88 | 530 | 1500 | 30 / 25 |
| TW535MBGP-144-D | 49.50 | 13.73 | 41.36 | 12.94 | 535 | 1500 | 30 / 25 |
| TW540MBGP-144-D | 49.70 | 13.78 | 41.56 | 13.00 | 540 | 1500 | 30 / 25 |
| TW545MBGP-144-D | 49.90 | 13.83 | 41.76 | 13.05 | 545 | 1500 | 30 / 25 |
| TW550MBGP-144-D | 50.10 | 13.88 | 41.96 | 13.11 | 550 | 1500 | 30 / 25 |
| TWMPD-66HD480   | 45.00 | 13.62 | 37.52 | 12.79 | 480 | 1500 | 30 / 25 |
| TWMPD-66HD485   | 45.20 | 13.67 | 37.69 | 12.87 | 485 | 1500 | 30 / 25 |
| TWMPD-66HD490   | 45.40 | 13.72 | 37.86 | 12.94 | 490 | 1500 | 30 / 25 |
| TWMPD-66HD495   | 45.60 | 13.77 | 38.03 | 13.02 | 495 | 1500 | 30 / 25 |
| TWMPD-66HD500   | 45.80 | 13.82 | 38.20 | 13.09 | 500 | 1500 | 30 / 25 |

**NOTE:** This appendix is valid when used with the certificate.



CHINA QUALITY CERTIFICATION CENTRE



# CERTIFICATE OF PRODUCT CERTIFICATION

## SOLAR PRODUCT CERTIFICATE

### APPENDIX

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PAPER:

|                 |       |       |       |       |     |      |         |
|-----------------|-------|-------|-------|-------|-----|------|---------|
| TWMPD-66HD505   | 46.00 | 13.87 | 38.37 | 13.16 | 505 | 1500 | 30 / 25 |
| TWMPD-66HD510   | 46.20 | 13.92 | 38.54 | 13.23 | 510 | 1500 | 30 / 25 |
| TWMPD-66HD515   | 46.40 | 13.97 | 38.71 | 13.30 | 515 | 1500 | 30 / 25 |
| TWMPD-66HD520   | 46.60 | 14.02 | 38.88 | 13.37 | 520 | 1500 | 30 / 25 |
| TW485MBAP-132-D | 45.20 | 13.67 | 37.69 | 12.87 | 485 | 1500 | 30 / 25 |
| TW490MBAP-132-D | 45.40 | 13.72 | 37.86 | 12.94 | 490 | 1500 | 30 / 25 |
| TW495MBAP-132-D | 45.60 | 13.77 | 38.03 | 13.02 | 495 | 1500 | 30 / 25 |
| TW500MBAP-132-D | 45.80 | 13.82 | 38.20 | 13.09 | 500 | 1500 | 30 / 25 |
| TW505MBAP-132-D | 46.00 | 13.87 | 38.37 | 13.16 | 505 | 1500 | 30 / 25 |
| TW510MBAP-132-D | 46.20 | 13.92 | 38.54 | 13.23 | 510 | 1500 | 30 / 25 |
| TW515MBAP-132-D | 46.40 | 13.97 | 38.71 | 13.30 | 515 | 1500 | 30 / 25 |
| TW520MBAP-132-D | 46.60 | 14.02 | 38.88 | 13.37 | 520 | 1500 | 30 / 25 |
| TW480MBGP-132-D | 45.00 | 13.62 | 37.52 | 12.79 | 480 | 1500 | 30 / 25 |
| TW485MBGP-132-D | 45.20 | 13.67 | 37.69 | 12.87 | 485 | 1500 | 30 / 25 |
| TW490MBGP-132-D | 45.40 | 13.72 | 37.86 | 12.94 | 490 | 1500 | 30 / 25 |
| TW495MBGP-132-D | 45.60 | 13.77 | 38.03 | 13.02 | 495 | 1500 | 30 / 25 |
| TW500MBGP-132-D | 45.80 | 13.82 | 38.20 | 13.09 | 500 | 1500 | 30 / 25 |

**NOTE:** This appendix is valid when used with the certificate.



CHINA QUALITY CERTIFICATION CENTRE



# CERTIFICATE OF PRODUCT CERTIFICATION

## SOLAR PRODUCT CERTIFICATE

### APPENDIX

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PAPER:

|                 |       |       |       |       |     |      |         |
|-----------------|-------|-------|-------|-------|-----|------|---------|
| TW505MBGP-132-D | 46.00 | 13.87 | 38.37 | 13.16 | 505 | 1500 | 30 / 25 |
| TWMPD-60HD440   | 41.10 | 13.65 | 34.26 | 12.84 | 440 | 1500 | 30 / 25 |
| TWMPD-60HD445   | 41.30 | 13.70 | 34.43 | 12.92 | 445 | 1500 | 30 / 25 |
| TWMPD-60HD450   | 41.50 | 13.75 | 34.60 | 13.01 | 450 | 1500 | 30 / 25 |
| TWMPD-60HD455   | 41.70 | 13.80 | 34.77 | 13.09 | 455 | 1500 | 30 / 25 |
| TWMPD-60HD460   | 41.90 | 13.85 | 34.94 | 13.17 | 460 | 1500 | 30 / 25 |
| TWMPD-60HD465   | 42.10 | 13.90 | 35.11 | 13.24 | 465 | 1500 | 30 / 25 |
| TWMPD-60HD470   | 42.30 | 13.95 | 35.28 | 13.32 | 470 | 1500 | 30 / 25 |
| TW440MBAP-120-D | 41.10 | 13.65 | 34.26 | 12.84 | 440 | 1500 | 30 / 25 |
| TW445MBAP-120-D | 41.30 | 13.70 | 34.43 | 12.92 | 445 | 1500 | 30 / 25 |
| TW450MBAP-120-D | 41.50 | 13.75 | 34.60 | 13.01 | 450 | 1500 | 30 / 25 |
| TW455MBAP-120-D | 41.70 | 13.80 | 34.77 | 13.09 | 455 | 1500 | 30 / 25 |
| TW460MBAP-120-D | 41.90 | 13.85 | 34.94 | 13.17 | 460 | 1500 | 30 / 25 |
| TW465MBAP-120-D | 42.10 | 13.90 | 35.11 | 13.24 | 465 | 1500 | 30 / 25 |
| TW470MBAP-120-D | 42.30 | 13.95 | 35.28 | 13.32 | 470 | 1500 | 30 / 25 |
| TW440MBGP-120-D | 41.10 | 13.65 | 34.26 | 12.84 | 440 | 1500 | 30 / 25 |
| TW445MBGP-120-D | 41.30 | 13.70 | 34.43 | 12.92 | 445 | 1500 | 30 / 25 |

**NOTE:** This appendix is valid when used with the certificate.



CHINA QUALITY CERTIFICATION CENTRE



# CERTIFICATE OF PRODUCT CERTIFICATION

## SOLAR PRODUCT CERTIFICATE

### APPENDIX

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|                 |       |       |       |       |     |      |         |
|-----------------|-------|-------|-------|-------|-----|------|---------|
| TW450MBGP-120-D | 41.50 | 13.75 | 34.60 | 13.01 | 450 | 1500 | 30 / 25 |
| TW455MBGP-120-D | 41.70 | 13.80 | 34.77 | 13.09 | 455 | 1500 | 30 / 25 |
| TW460MBGP-120-D | 41.90 | 13.85 | 34.94 | 13.17 | 460 | 1500 | 30 / 25 |
| TWMPD-54HD395   | 36.93 | 13.67 | 30.43 | 12.98 | 395 | 1500 | 30 / 25 |
| TWMPD-54HD400   | 37.08 | 13.77 | 30.58 | 13.08 | 400 | 1500 | 30 / 25 |
| TWMPD-54HD405   | 37.23 | 13.87 | 30.73 | 13.18 | 405 | 1500 | 30 / 25 |
| TWMPD-54HD410   | 37.38 | 13.92 | 30.88 | 13.28 | 410 | 1500 | 30 / 25 |
| TWMPD-54HD415   | 37.53 | 13.95 | 31.03 | 13.38 | 415 | 1500 | 30 / 25 |
| TWMPD-54HD420   | 37.68 | 13.98 | 31.18 | 13.47 | 420 | 1500 | 30 / 25 |
| TWMPD-54HD425   | 37.83 | 14.01 | 31.33 | 13.58 | 425 | 1500 | 30 / 25 |
| TW400MBAP-108-D | 37.08 | 13.77 | 30.58 | 13.08 | 400 | 1500 | 30 / 25 |
| TW405MBAP-108-D | 37.23 | 13.87 | 30.73 | 13.18 | 405 | 1500 | 30 / 25 |
| TW410MBAP-108-D | 37.38 | 13.92 | 30.88 | 13.28 | 410 | 1500 | 30 / 25 |
| TW415MBAP-108-D | 37.53 | 13.95 | 31.03 | 13.38 | 415 | 1500 | 30 / 25 |
| TW420MBAP-108-D | 37.68 | 13.98 | 31.18 | 13.47 | 420 | 1500 | 30 / 25 |
| TW425MBAP-108-D | 37.83 | 14.01 | 31.33 | 13.58 | 425 | 1500 | 30 / 25 |
| TW395MBGP-108-D | 36.93 | 13.67 | 30.43 | 12.98 | 395 | 1500 | 30 / 25 |

**NOTE:** This appendix is valid when used with the certificate.



CHINA QUALITY CERTIFICATION CENTRE



# CERTIFICATE OF PRODUCT CERTIFICATION

## SOLAR PRODUCT CERTIFICATE

### APPENDIX

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|                 |       |       |       |       |     |      |         |
|-----------------|-------|-------|-------|-------|-----|------|---------|
| TW400MBGP-108-D | 37.08 | 13.77 | 30.58 | 13.08 | 400 | 1500 | 30 / 25 |
| TW405MBGP-108-D | 37.23 | 13.87 | 30.73 | 13.18 | 405 | 1500 | 30 / 25 |
| TW410MBGP-108-D | 37.38 | 13.92 | 30.88 | 13.28 | 410 | 1500 | 30 / 25 |
| TW415MBGP-108-D | 37.53 | 13.95 | 31.03 | 13.38 | 415 | 1500 | 30 / 25 |
| TWMND-78HD580   | 54.00 | 13.86 | 44.78 | 12.95 | 580 | 1500 | 30 / 25 |
| TWMND-78HD585   | 54.20 | 13.90 | 44.98 | 13.01 | 585 | 1500 | 30 / 25 |
| TWMND-78HD590   | 54.40 | 13.94 | 45.18 | 13.06 | 590 | 1500 | 30 / 25 |
| TWMND-78HD595   | 54.60 | 13.98 | 45.38 | 13.11 | 595 | 1500 | 30 / 25 |
| TWMND-78HD600   | 54.80 | 14.02 | 45.58 | 13.16 | 600 | 1500 | 30 / 25 |
| TWMND-78HD605   | 55.00 | 14.06 | 45.78 | 13.22 | 605 | 1500 | 30 / 25 |
| TWMND-78HD610   | 55.20 | 14.10 | 45.98 | 13.27 | 610 | 1500 | 30 / 25 |
| TWMND-78HD615   | 55.40 | 14.14 | 46.18 | 13.32 | 615 | 1500 | 30 / 25 |
| TW580MBGT-156-D | 54.00 | 13.86 | 44.78 | 12.95 | 580 | 1500 | 30 / 25 |
| TW585MBGT-156-D | 54.20 | 13.90 | 44.98 | 13.01 | 585 | 1500 | 30 / 25 |
| TW590MBGT-156-D | 54.40 | 13.94 | 45.18 | 13.06 | 590 | 1500 | 30 / 25 |
| TW595MBGT-156-D | 54.60 | 13.98 | 45.38 | 13.11 | 595 | 1500 | 30 / 25 |
| TW600MBGT-156-D | 54.80 | 14.02 | 45.58 | 13.16 | 600 | 1500 | 30 / 25 |

**NOTE:** This appendix is valid when used with the certificate.



CHINA QUALITY CERTIFICATION CENTRE



# CERTIFICATE OF PRODUCT CERTIFICATION

## SOLAR PRODUCT CERTIFICATE

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|                 |       |       |       |       |     |      |         |
|-----------------|-------|-------|-------|-------|-----|------|---------|
| TW605MBGT-156-D | 55.00 | 14.06 | 45.78 | 13.22 | 605 | 1500 | 30 / 25 |
| TW610MBGT-156-D | 55.20 | 14.10 | 45.98 | 13.27 | 610 | 1500 | 30 / 25 |
| TW615MBGT-156-D | 55.40 | 14.14 | 46.18 | 13.32 | 615 | 1500 | 30 / 25 |
| TWMND-72HD535   | 49.84 | 13.93 | 41.48 | 12.91 | 535 | 1500 | 30 / 25 |
| TWMND-72HD540   | 50.04 | 13.97 | 41.68 | 12.96 | 540 | 1500 | 30 / 25 |
| TWMND-72HD545   | 50.24 | 14.01 | 41.88 | 13.02 | 545 | 1500 | 30 / 25 |
| TWMND-72HD550   | 50.44 | 14.05 | 42.08 | 13.07 | 550 | 1500 | 30 / 25 |
| TWMND-72HD555   | 50.64 | 14.09 | 42.28 | 13.13 | 555 | 1500 | 30 / 25 |
| TWMND-72HD560   | 50.84 | 14.13 | 42.48 | 13.18 | 560 | 1500 | 30 / 25 |
| TWMND-72HD565   | 51.04 | 14.17 | 42.68 | 13.24 | 565 | 1500 | 30 / 25 |
| TW535MBGT-144-D | 49.84 | 13.93 | 41.48 | 12.91 | 535 | 1500 | 30 / 25 |
| TW540MBGT-144-D | 50.04 | 13.97 | 41.68 | 12.96 | 540 | 1500 | 30 / 25 |
| TW545MBGT-144-D | 50.24 | 14.01 | 41.88 | 13.02 | 545 | 1500 | 30 / 25 |
| TW550MBGT-144-D | 50.44 | 14.05 | 42.08 | 13.07 | 550 | 1500 | 30 / 25 |
| TW555MBGT-144-D | 50.64 | 14.09 | 42.28 | 13.13 | 555 | 1500 | 30 / 25 |
| TW560MBGT-144-D | 50.84 | 14.13 | 42.48 | 13.18 | 560 | 1500 | 30 / 25 |
| TW565MBGT-144-D | 51.04 | 14.17 | 42.68 | 13.24 | 565 | 1500 | 30 / 25 |

**NOTE:** This appendix is valid when used with the certificate.



CHINA QUALITY CERTIFICATION CENTRE



# CERTIFICATE OF PRODUCT CERTIFICATION

## SOLAR PRODUCT CERTIFICATE

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|                 |       |       |       |       |     |      |         |
|-----------------|-------|-------|-------|-------|-----|------|---------|
| TWMND-66HD490   | 45.65 | 13.96 | 38.00 | 12.91 | 490 | 1500 | 30 / 25 |
| TWMND-66HD495   | 45.85 | 14.00 | 38.20 | 12.97 | 495 | 1500 | 30 / 25 |
| TWMND-66HD500   | 46.05 | 14.04 | 38.40 | 13.03 | 500 | 1500 | 30 / 25 |
| TWMND-66HD505   | 46.25 | 14.08 | 38.60 | 13.09 | 505 | 1500 | 30 / 25 |
| TWMND-66HD510   | 46.45 | 14.12 | 38.80 | 13.15 | 510 | 1500 | 30 / 25 |
| TWMND-66HD515   | 46.65 | 14.16 | 39.00 | 13.21 | 515 | 1500 | 30 / 25 |
| TWMND-66HD520   | 46.85 | 14.20 | 39.20 | 13.27 | 520 | 1500 | 30 / 25 |
| TW490MBGT-132-D | 45.65 | 13.96 | 38.00 | 12.91 | 490 | 1500 | 30 / 25 |
| TW495MBGT-132-D | 45.85 | 14.00 | 38.20 | 12.97 | 495 | 1500 | 30 / 25 |
| TW500MBGT-132-D | 46.05 | 14.04 | 38.40 | 13.03 | 500 | 1500 | 30 / 25 |
| TW505MBGT-132-D | 46.25 | 14.08 | 38.60 | 13.09 | 505 | 1500 | 30 / 25 |
| TW510MBGT-132-D | 45.85 | 14.12 | 38.80 | 13.15 | 510 | 1500 | 30 / 25 |
| TW515MBGT-132-D | 46.05 | 14.16 | 39.00 | 13.21 | 515 | 1500 | 30 / 25 |
| TW520MBGT-132-D | 46.25 | 14.20 | 39.20 | 13.27 | 520 | 1500 | 30 / 25 |
| TWMND-60HD-445  | 41.51 | 13.95 | 34.56 | 12.88 | 445 | 1500 | 30 / 25 |
| TWMND-60HD-450  | 41.69 | 13.99 | 34.74 | 12.96 | 450 | 1500 | 30 / 25 |
| TWMND-60HD-455  | 41.87 | 14.03 | 34.92 | 13.03 | 455 | 1500 | 30 / 25 |

**NOTE:** This appendix is valid when used with the certificate.



CHINA QUALITY CERTIFICATION CENTRE



# CERTIFICATE OF PRODUCT CERTIFICATION

## SOLAR PRODUCT CERTIFICATE

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|                 |       |       |       |       |     |      |         |
|-----------------|-------|-------|-------|-------|-----|------|---------|
| TWMND-60HD-460  | 42.05 | 14.07 | 35.10 | 13.11 | 460 | 1500 | 30 / 25 |
| TWMND-60HD-465  | 42.23 | 14.11 | 35.28 | 13.18 | 465 | 1500 | 30 / 25 |
| TWMND-60HD-470  | 42.41 | 14.15 | 35.46 | 13.26 | 470 | 1500 | 30 / 25 |
| TW445MBGT-120-D | 41.51 | 13.95 | 34.56 | 12.88 | 445 | 1500 | 30 / 25 |
| TW450MBGT-120-D | 41.69 | 13.99 | 34.74 | 12.96 | 450 | 1500 | 30 / 25 |
| TW455MBGT-120-D | 41.87 | 14.03 | 34.92 | 13.03 | 455 | 1500 | 30 / 25 |
| TW460MBGT-120-D | 42.05 | 14.07 | 35.10 | 13.11 | 460 | 1500 | 30 / 25 |
| TW465MBGT-120-D | 42.23 | 14.11 | 35.28 | 13.18 | 465 | 1500 | 30 / 25 |
| TW470MBGT-120-D | 42.41 | 14.15 | 35.46 | 13.26 | 470 | 1500 | 30 / 25 |
| TWMND-54HD-400  | 37.41 | 13.96 | 31.11 | 12.88 | 400 | 1500 | 30 / 25 |
| TWMND-54HD-405  | 37.58 | 13.99 | 31.28 | 12.96 | 405 | 1500 | 30 / 25 |
| TWMND-54HD-410  | 37.75 | 14.02 | 31.45 | 13.04 | 410 | 1500 | 30 / 25 |
| TWMND-54HD-415  | 37.92 | 14.05 | 31.62 | 13.12 | 415 | 1500 | 30 / 25 |
| TWMND-54HD-420  | 38.09 | 14.08 | 31.80 | 13.21 | 420 | 1500 | 30 / 25 |
| TWMND-54HD-425  | 38.26 | 14.11 | 31.98 | 13.29 | 425 | 1500 | 30 / 25 |
| TW400MBGT-108-D | 37.41 | 13.96 | 31.11 | 12.88 | 400 | 1500 | 30 / 25 |
| TW405MBGT-108-D | 37.58 | 13.99 | 31.28 | 12.96 | 405 | 1500 | 30 / 25 |

**NOTE:** This appendix is valid when used with the certificate.



CHINA QUALITY CERTIFICATION CENTRE



# CERTIFICATE OF PRODUCT CERTIFICATION

## SOLAR PRODUCT CERTIFICATE

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|                 |       |       |       |       |     |      |         |
|-----------------|-------|-------|-------|-------|-----|------|---------|
| TW410MBGT-108-D | 37.75 | 14.02 | 31.45 | 13.04 | 410 | 1500 | 30 / 25 |
| TW415MBGT-108-D | 37.92 | 14.05 | 31.62 | 13.12 | 415 | 1500 | 30 / 25 |
| TW420MBGT-108-D | 38.09 | 14.08 | 31.80 | 13.21 | 420 | 1500 | 30 / 25 |
| TW425MBGT-108-D | 38.26 | 14.11 | 31.98 | 13.29 | 425 | 1500 | 30 / 25 |
| TWMPF-66HD635   | 44.80 | 18.07 | 37.00 | 17.16 | 635 | 1500 | 35 / 30 |
| TWMPF-66HD640   | 45.00 | 18.12 | 37.20 | 17.20 | 640 | 1500 | 35 / 30 |
| TWMPF-66HD645   | 45.20 | 18.17 | 37.40 | 17.25 | 645 | 1500 | 35 / 30 |
| TWMPF-66HD650   | 45.40 | 18.21 | 37.60 | 17.29 | 650 | 1500 | 35 / 30 |
| TWMPF-66HD655   | 45.60 | 18.26 | 37.80 | 17.33 | 655 | 1500 | 35 / 30 |
| TWMPF-66HD660   | 45.80 | 18.31 | 38.00 | 17.37 | 660 | 1500 | 35 / 30 |
| TWMPF-66HD665   | 46.00 | 18.36 | 38.20 | 17.41 | 665 | 1500 | 35 / 30 |
| TWMPF-66HD670   | 46.20 | 18.41 | 38.40 | 17.45 | 670 | 1500 | 35 / 30 |
| TWMPF-66HD675   | 46.40 | 18.46 | 38.60 | 17.49 | 675 | 1500 | 35 / 30 |
| TW635MBCP-132-D | 44.80 | 18.07 | 37.00 | 17.16 | 635 | 1500 | 35 / 30 |
| TW640MBCP-132-D | 45.00 | 18.12 | 37.20 | 17.20 | 640 | 1500 | 35 / 30 |
| TW645MBCP-132-D | 45.20 | 18.17 | 37.40 | 17.25 | 645 | 1500 | 35 / 30 |
| TW650MBCP-132-D | 45.40 | 18.21 | 37.60 | 17.29 | 650 | 1500 | 35 / 30 |

**NOTE:** This appendix is valid when used with the certificate.



CHINA QUALITY CERTIFICATION CENTRE



# CERTIFICATE OF PRODUCT CERTIFICATION

## SOLAR PRODUCT CERTIFICATE

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|                 |       |       |       |       |     |      |         |
|-----------------|-------|-------|-------|-------|-----|------|---------|
| TW655MBCP-132-D | 45.60 | 18.26 | 37.80 | 17.33 | 655 | 1500 | 35 / 30 |
| TW660MBCP-132-D | 45.80 | 18.31 | 38.00 | 17.37 | 660 | 1500 | 35 / 30 |
| TW665MBCP-132-D | 46.00 | 18.36 | 38.20 | 17.41 | 665 | 1500 | 35 / 30 |
| TW670MBCP-132-D | 46.20 | 18.41 | 38.40 | 17.45 | 670 | 1500 | 35 / 30 |
| TW675MBCP-132-D | 46.40 | 18.46 | 38.60 | 17.49 | 675 | 1500 | 35 / 30 |
| TW635MBIP-132-D | 44.80 | 18.07 | 37.00 | 17.16 | 635 | 1500 | 35 / 30 |
| TW640MBIP-132-D | 45.00 | 18.12 | 37.20 | 17.20 | 640 | 1500 | 35 / 30 |
| TW645MBIP-132-D | 45.20 | 18.17 | 37.40 | 17.25 | 645 | 1500 | 35 / 30 |
| TW650MBIP-132-D | 45.40 | 18.21 | 37.60 | 17.29 | 650 | 1500 | 35 / 30 |
| TW655MBIP-132-D | 45.60 | 18.26 | 37.80 | 17.33 | 655 | 1500 | 35 / 30 |
| TW660MBIP-132-D | 45.80 | 18.31 | 38.00 | 17.37 | 660 | 1500 | 35 / 30 |
| TW665MBIP-132-D | 46.00 | 18.36 | 38.20 | 17.41 | 665 | 1500 | 35 / 30 |
| TW670MBIP-132-D | 46.20 | 18.41 | 38.40 | 17.45 | 670 | 1500 | 35 / 30 |
| TW675MBIP-132-D | 46.40 | 18.46 | 38.60 | 17.49 | 675 | 1500 | 35 / 30 |
| TWMPF-60HD580   | 40.84 | 18.25 | 33.75 | 17.19 | 580 | 1500 | 35 / 30 |
| TWMPF-60HD585   | 41.04 | 18.30 | 33.95 | 17.23 | 585 | 1500 | 35 / 30 |
| TWMPF-60HD590   | 41.24 | 18.36 | 34.15 | 17.28 | 590 | 1500 | 35 / 30 |

**NOTE:** This appendix is valid when used with the certificate.



CHINA QUALITY CERTIFICATION CENTRE



# CERTIFICATE OF PRODUCT CERTIFICATION

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|-----------------|-------|-------|-------|-------|-----|------|---------|
| TWMPF-60HD595   | 41.44 | 18.41 | 34.35 | 17.32 | 595 | 1500 | 35 / 30 |
| TWMPF-60HD600   | 41.64 | 18.46 | 34.55 | 17.37 | 600 | 1500 | 35 / 30 |
| TWMPF-60HD605   | 41.84 | 18.52 | 34.75 | 17.41 | 605 | 1500 | 35 / 30 |
| TWMPF-60HD610   | 42.04 | 18.57 | 34.95 | 17.46 | 610 | 1500 | 35 / 30 |
| TW580MBCP-120-D | 40.84 | 18.25 | 33.75 | 17.19 | 580 | 1500 | 35 / 30 |
| TW585MBCP-120-D | 41.04 | 18.30 | 33.95 | 17.23 | 585 | 1500 | 35 / 30 |
| TW590MBCP-120-D | 41.24 | 18.36 | 34.15 | 17.28 | 590 | 1500 | 35 / 30 |
| TW595MBCP-120-D | 41.44 | 18.41 | 34.35 | 17.32 | 595 | 1500 | 35 / 30 |
| TW600MBCP-120-D | 41.64 | 18.46 | 34.55 | 17.37 | 600 | 1500 | 35 / 30 |
| TW605MBCP-120-D | 41.84 | 18.52 | 34.75 | 17.41 | 605 | 1500 | 35 / 30 |
| TW610MBCP-120-D | 42.04 | 18.57 | 34.95 | 17.46 | 610 | 1500 | 35 / 30 |
| TW580MBIP-120-D | 40.84 | 18.25 | 33.75 | 17.19 | 580 | 1500 | 35 / 30 |
| TW585MBIP-120-D | 41.04 | 18.30 | 33.95 | 17.23 | 585 | 1500 | 35 / 30 |
| TW590MBIP-120-D | 41.24 | 18.36 | 34.15 | 17.28 | 590 | 1500 | 35 / 30 |
| TW595MBIP-120-D | 41.44 | 18.41 | 34.35 | 17.32 | 595 | 1500 | 35 / 30 |
| TW600MBIP-120-D | 41.64 | 18.46 | 34.55 | 17.37 | 600 | 1500 | 35 / 30 |
| TW605MBIP-120-D | 41.84 | 18.52 | 34.75 | 17.41 | 605 | 1500 | 35 / 30 |

**NOTE:** This appendix is valid when used with the certificate.



CHINA QUALITY CERTIFICATION CENTRE



# CERTIFICATE OF PRODUCT CERTIFICATION

## SOLAR PRODUCT CERTIFICATE

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|                 |       |       |       |       |     |      |         |
|-----------------|-------|-------|-------|-------|-----|------|---------|
| TW610MBIP-120-D | 42.04 | 18.57 | 34.95 | 17.46 | 610 | 1500 | 35 / 30 |
| TWMPF-54HD520   | 36.57 | 18.23 | 30.32 | 17.15 | 520 | 1500 | 35 / 30 |
| TWMPF-54HD525   | 36.73 | 18.29 | 30.49 | 17.22 | 525 | 1500 | 35 / 30 |
| TWMPF-54HD530   | 36.89 | 18.33 | 30.66 | 17.29 | 530 | 1500 | 35 / 30 |
| TWMPF-54HD535   | 37.05 | 18.37 | 30.83 | 17.36 | 535 | 1500 | 35 / 30 |
| TWMPF-54HD540   | 37.21 | 18.41 | 31.00 | 17.42 | 540 | 1500 | 35 / 30 |
| TWMPF-54HD545   | 37.37 | 18.45 | 31.17 | 17.49 | 545 | 1500 | 35 / 30 |
| TWMPF-54HD550   | 37.53 | 18.49 | 31.34 | 17.55 | 550 | 1500 | 35 / 30 |
| TW520MBCP-108-D | 36.57 | 18.23 | 30.32 | 17.15 | 520 | 1500 | 35 / 30 |
| TW525MBCP-108-D | 36.73 | 18.29 | 30.49 | 17.22 | 525 | 1500 | 35 / 30 |
| TW530MBCP-108-D | 36.89 | 18.33 | 30.66 | 17.29 | 530 | 1500 | 35 / 30 |
| TW535MBCP-108-D | 37.05 | 18.37 | 30.83 | 17.36 | 535 | 1500 | 35 / 30 |
| TW540MBCP-108-D | 37.21 | 18.41 | 31.00 | 17.42 | 540 | 1500 | 35 / 30 |
| TW545MBCP-108-D | 37.37 | 18.45 | 31.17 | 17.49 | 545 | 1500 | 35 / 30 |
| TW550MBCP-108-D | 37.53 | 18.49 | 31.34 | 17.55 | 550 | 1500 | 35 / 30 |
| TW520MBIP-108-D | 36.57 | 18.23 | 30.32 | 17.15 | 520 | 1500 | 35 / 30 |
| TW525MBIP-108-D | 36.73 | 18.29 | 30.49 | 17.22 | 525 | 1500 | 35 / 30 |

**NOTE:** This appendix is valid when used with the certificate.



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# CERTIFICATE OF PRODUCT CERTIFICATION

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|                 |       |       |       |       |     |      |         |
|-----------------|-------|-------|-------|-------|-----|------|---------|
| TW530MBIP-108-D | 36.89 | 18.33 | 30.66 | 17.29 | 530 | 1500 | 35 / 30 |
| TW535MBIP-108-D | 37.05 | 18.37 | 30.83 | 17.36 | 535 | 1500 | 35 / 30 |
| TW540MBIP-108-D | 37.21 | 18.41 | 31.00 | 17.42 | 540 | 1500 | 35 / 30 |
| TW545MBIP-108-D | 37.37 | 18.45 | 31.17 | 17.49 | 545 | 1500 | 35 / 30 |
| TW550MBIP-108-D | 37.53 | 18.49 | 31.34 | 17.55 | 550 | 1500 | 35 / 30 |
| TWMPF-55HD530   | 37.30 | 18.19 | 31.00 | 17.11 | 530 | 1500 | 35 / 30 |
| TWMPF-55HD535   | 37.50 | 18.24 | 31.20 | 17.16 | 535 | 1500 | 35 / 30 |
| TWMPF-55HD540   | 37.70 | 18.30 | 31.40 | 17.21 | 540 | 1500 | 35 / 30 |
| TWMPF-55HD545   | 37.90 | 18.35 | 31.60 | 17.24 | 545 | 1500 | 35 / 30 |
| TWMPF-55HD550   | 38.10 | 18.39 | 31.80 | 17.29 | 550 | 1500 | 35 / 30 |
| TWMPF-55HD555   | 38.30 | 18.43 | 32.00 | 17.34 | 555 | 1500 | 35 / 30 |
| TWMPF-55HD560   | 38.50 | 18.47 | 32.20 | 17.39 | 560 | 1500 | 35 / 30 |
| TW530MBCP-110-D | 37.30 | 18.19 | 31.00 | 17.11 | 530 | 1500 | 35 / 30 |
| TW535MBCP-110-D | 37.50 | 18.24 | 31.20 | 17.16 | 535 | 1500 | 35 / 30 |
| TW540MBCP-110-D | 37.70 | 18.30 | 31.40 | 17.21 | 540 | 1500 | 35 / 30 |
| TW545MBCP-110-D | 37.90 | 18.35 | 31.60 | 17.24 | 545 | 1500 | 35 / 30 |
| TW550MBCP-110-D | 38.10 | 18.39 | 31.80 | 17.29 | 550 | 1500 | 35 / 30 |

**NOTE:** This appendix is valid when used with the certificate.



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# CERTIFICATE OF PRODUCT CERTIFICATION

## SOLAR PRODUCT CERTIFICATE

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|                 |       |       |       |       |     |      |         |
|-----------------|-------|-------|-------|-------|-----|------|---------|
| TW555MBCP-110-D | 38.30 | 18.43 | 32.00 | 17.34 | 555 | 1500 | 35 / 30 |
| TW560MBCP-110-D | 38.50 | 18.47 | 32.20 | 17.39 | 560 | 1500 | 35 / 30 |
| TW530MBIP-110-D | 37.30 | 18.19 | 31.00 | 17.11 | 530 | 1500 | 35 / 30 |
| TW535MBIP-110-D | 37.50 | 18.24 | 31.20 | 17.16 | 535 | 1500 | 35 / 30 |
| TW540MBIP-110-D | 37.70 | 18.30 | 31.40 | 17.21 | 540 | 1500 | 35 / 30 |
| TW545MBIP-110-D | 37.90 | 18.35 | 31.60 | 17.24 | 545 | 1500 | 35 / 30 |
| TW550MBIP-110-D | 38.10 | 18.39 | 31.80 | 17.29 | 550 | 1500 | 35 / 30 |
| TW555MBIP-110-D | 38.30 | 18.43 | 32.00 | 17.34 | 555 | 1500 | 35 / 30 |
| TW560MBIP-110-D | 38.50 | 18.47 | 32.20 | 17.39 | 560 | 1500 | 35 / 30 |
| TWMPF-50HD480   | 33.85 | 18.15 | 28.25 | 16.99 | 480 | 1500 | 35 / 30 |
| TWMPF-50HD485   | 34.00 | 18.20 | 28.40 | 17.08 | 485 | 1500 | 35 / 30 |
| TWMPF-50HD490   | 34.15 | 18.25 | 28.55 | 17.17 | 490 | 1500 | 35 / 30 |
| TWMPF-50HD495   | 34.30 | 18.30 | 28.70 | 17.25 | 495 | 1500 | 35 / 30 |
| TWMPF-50HD500   | 34.45 | 18.35 | 28.85 | 17.33 | 500 | 1500 | 35 / 30 |
| TWMPF-50HD505   | 34.60 | 18.40 | 29.00 | 17.42 | 505 | 1500 | 35 / 30 |
| TWMPF-50HD510   | 34.75 | 18.45 | 29.15 | 17.50 | 510 | 1500 | 35 / 30 |
| TW480MBCP-100-D | 33.85 | 18.15 | 28.25 | 16.99 | 480 | 1500 | 35 / 30 |

**NOTE:** This appendix is valid when used with the certificate.



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|                 |       |       |       |       |     |      |         |
|-----------------|-------|-------|-------|-------|-----|------|---------|
| TW485MBCP-100-D | 34.00 | 18.20 | 28.40 | 17.08 | 485 | 1500 | 35 / 30 |
| TW490MBCP-100-D | 34.15 | 18.25 | 28.55 | 17.17 | 490 | 1500 | 35 / 30 |
| TW495MBCP-100-D | 34.30 | 18.30 | 28.70 | 17.25 | 495 | 1500 | 35 / 30 |
| TW500MBCP-100-D | 34.45 | 18.35 | 28.85 | 17.33 | 500 | 1500 | 35 / 30 |
| TW505MBCP-100-D | 34.60 | 18.40 | 29.00 | 17.42 | 505 | 1500 | 35 / 30 |
| TW510MBCP-100-D | 34.75 | 18.45 | 29.15 | 17.50 | 510 | 1500 | 35 / 30 |
| TW480MBIP-100-D | 33.85 | 18.15 | 28.25 | 16.99 | 480 | 1500 | 35 / 30 |
| TW485MBIP-100-D | 34.00 | 18.20 | 28.40 | 17.08 | 485 | 1500 | 35 / 30 |
| TW490MBIP-100-D | 34.15 | 18.25 | 28.55 | 17.17 | 490 | 1500 | 35 / 30 |
| TW495MBIP-100-D | 34.30 | 18.30 | 28.70 | 17.25 | 495 | 1500 | 35 / 30 |
| TW500MBIP-100-D | 34.45 | 18.35 | 28.85 | 17.33 | 500 | 1500 | 35 / 30 |
| TW505MBIP-100-D | 34.60 | 18.40 | 29.00 | 17.42 | 505 | 1500 | 35 / 30 |
| TW510MBIP-100-D | 34.75 | 18.45 | 29.15 | 17.50 | 510 | 1500 | 35 / 30 |
| TWMNF-66HD665   | 46.90 | 18.06 | 39.10 | 17.01 | 665 | 1500 | 35 / 30 |
| TWMNF-66HD670   | 47.10 | 18.10 | 39.30 | 17.05 | 670 | 1500 | 35 / 30 |
| TWMNF-66HD675   | 47.30 | 18.14 | 39.50 | 17.09 | 675 | 1500 | 35 / 30 |
| TWMNF-66HD680   | 47.50 | 18.18 | 39.70 | 17.12 | 680 | 1500 | 35 / 30 |

**NOTE:** This appendix is valid when used with the certificate.



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|-----------------|-------|-------|-------|-------|-----|------|---------|
| TWMNF-66HD685   | 47.70 | 18.22 | 39.90 | 17.17 | 685 | 1500 | 35 / 30 |
| TWMNF-66HD690   | 47.85 | 18.26 | 40.10 | 17.21 | 690 | 1500 | 35 / 30 |
| TW665MBIT-132-D | 46.90 | 18.06 | 39.10 | 17.01 | 665 | 1500 | 35 / 30 |
| TW670MBIT-132-D | 47.10 | 18.10 | 39.30 | 17.05 | 670 | 1500 | 35 / 30 |
| TW675MBIT-132-D | 47.30 | 18.14 | 39.50 | 17.09 | 675 | 1500 | 35 / 30 |
| TW680MBIT-132-D | 47.50 | 18.18 | 39.70 | 17.12 | 680 | 1500 | 35 / 30 |
| TW685MBIT-132-D | 47.70 | 18.22 | 39.90 | 17.17 | 685 | 1500 | 35 / 30 |
| TW690MBIT-132-D | 47.85 | 18.26 | 40.10 | 17.21 | 690 | 1500 | 35 / 30 |
| TWMNF-60HD605   | 42.70 | 18.05 | 35.40 | 17.09 | 605 | 1500 | 35 / 30 |
| TWMNF-60HD610   | 42.90 | 18.10 | 35.58 | 17.15 | 610 | 1500 | 35 / 30 |
| TWMNF-60HD615   | 43.10 | 18.15 | 35.76 | 17.20 | 615 | 1500 | 35 / 30 |
| TWMNF-60HD620   | 43.30 | 18.21 | 35.94 | 17.25 | 620 | 1500 | 35 / 30 |
| TWMNF-60HD625   | 43.45 | 18.26 | 36.12 | 17.31 | 625 | 1500 | 35 / 30 |
| TW605MBIT-120-D | 42.70 | 18.05 | 35.40 | 17.09 | 605 | 1500 | 35 / 30 |
| TW610MBIT-120-D | 42.90 | 18.10 | 35.58 | 17.15 | 610 | 1500 | 35 / 30 |
| TW615MBIT-120-D | 43.10 | 18.15 | 35.76 | 17.20 | 615 | 1500 | 35 / 30 |
| TW620MBIT-120-D | 43.30 | 18.21 | 35.94 | 17.25 | 620 | 1500 | 35 / 30 |

**NOTE:** This appendix is valid when used with the certificate.



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# CERTIFICATE OF PRODUCT CERTIFICATION

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|-----------------|-------|-------|-------|-------|-----|------|---------|
| TW625MBIT-120-D | 43.45 | 18.26 | 36.12 | 17.31 | 625 | 1500 | 35 / 30 |
| TWMNF-54HD545   | 38.57 | 18.13 | 31.72 | 17.18 | 545 | 1500 | 35 / 30 |
| TWMNF-54HD550   | 38.74 | 18.18 | 31.90 | 17.24 | 550 | 1500 | 35 / 30 |
| TWMNF-54HD555   | 38.91 | 18.23 | 32.08 | 17.30 | 555 | 1500 | 35 / 30 |
| TWMNF-54HD560   | 39.08 | 18.28 | 32.26 | 17.36 | 560 | 1500 | 35 / 30 |
| TWMNF-54HD565   | 39.25 | 18.33 | 32.44 | 17.42 | 565 | 1500 | 35 / 30 |
| TW545MBIT-108-D | 38.57 | 18.13 | 31.72 | 17.18 | 545 | 1500 | 35 / 30 |
| TW550MBIT-108-D | 38.74 | 18.18 | 31.90 | 17.24 | 550 | 1500 | 35 / 30 |
| TW555MBIT-108-D | 38.91 | 18.23 | 32.08 | 17.30 | 555 | 1500 | 35 / 30 |
| TW560MBIT-108-D | 39.08 | 18.28 | 32.26 | 17.36 | 560 | 1500 | 35 / 30 |
| TW565MBIT-108-D | 39.25 | 18.33 | 32.44 | 17.42 | 565 | 1500 | 35 / 30 |
| TWMNF-55HD530   | 38.05 | 17.96 | 31.07 | 17.06 | 530 | 1500 | 35 / 30 |
| TWMNF-55HD535   | 38.25 | 18.00 | 31.27 | 17.11 | 535 | 1500 | 35 / 30 |
| TWMNF-55HD540   | 38.45 | 18.04 | 31.47 | 17.16 | 540 | 1500 | 35 / 30 |
| TWMNF-55HD545   | 38.65 | 18.08 | 31.67 | 17.21 | 545 | 1500 | 35 / 30 |
| TWMNF-55HD550   | 38.85 | 18.12 | 31.87 | 17.26 | 550 | 1500 | 35 / 30 |
| TWMNF-55HD555   | 39.05 | 18.16 | 32.05 | 17.32 | 555 | 1500 | 35 / 30 |

**NOTE:** This appendix is valid when used with the certificate.



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|                 |       |       |       |       |     |      |         |
|-----------------|-------|-------|-------|-------|-----|------|---------|
| TWMNF-55HD560   | 39.25 | 18.20 | 32.23 | 17.38 | 560 | 1500 | 35 / 30 |
| TWMNF-55HD565   | 39.45 | 18.24 | 32.40 | 17.44 | 565 | 1500 | 35 / 30 |
| TW530MBIT-110-D | 38.05 | 17.96 | 31.07 | 17.06 | 530 | 1500 | 35 / 30 |
| TW535MBIT-110-D | 38.25 | 18.00 | 31.27 | 17.11 | 535 | 1500 | 35 / 30 |
| TW540MBIT-110-D | 38.45 | 18.04 | 31.47 | 17.16 | 540 | 1500 | 35 / 30 |
| TW545MBIT-110-D | 38.65 | 18.08 | 31.67 | 17.21 | 545 | 1500 | 35 / 30 |
| TW550MBIT-110-D | 38.85 | 18.12 | 31.87 | 17.26 | 550 | 1500 | 35 / 30 |
| TW555MBIT-110-D | 39.05 | 18.16 | 32.05 | 17.32 | 555 | 1500 | 35 / 30 |
| TW560MBIT-110-D | 39.25 | 18.20 | 32.23 | 17.38 | 560 | 1500 | 35 / 30 |
| TW565MBIT-110-D | 39.45 | 18.24 | 32.40 | 17.44 | 565 | 1500 | 35 / 30 |
| TWMNF-50HD480   | 34.68 | 17.89 | 28.60 | 16.70 | 480 | 1500 | 35 / 30 |
| TWMNF-50HD485   | 34.85 | 17.94 | 28.79 | 16.79 | 485 | 1500 | 35 / 30 |
| TWMNF-50HD490   | 35.02 | 17.99 | 28.98 | 16.88 | 490 | 1500 | 35 / 30 |
| TWMNF-50HD495   | 35.19 | 18.04 | 29.17 | 16.97 | 495 | 1500 | 35 / 30 |
| TWMNF-50HD500   | 35.36 | 18.09 | 29.36 | 17.06 | 500 | 1500 | 35 / 30 |
| TWMNF-50HD505   | 35.53 | 18.14 | 29.54 | 17.10 | 505 | 1500 | 35 / 30 |
| TWMNF-50HD510   | 35.70 | 18.19 | 29.72 | 17.16 | 510 | 1500 | 35 / 30 |

**NOTE:** This appendix is valid when used with the certificate.



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# CERTIFICATE OF PRODUCT CERTIFICATION

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|                 |       |       |       |       |     |      |         |
|-----------------|-------|-------|-------|-------|-----|------|---------|
| TW480MBIT-100-D | 34.68 | 17.89 | 28.60 | 16.70 | 480 | 1500 | 35 / 30 |
| TW485MBIT-100-D | 34.85 | 17.94 | 28.79 | 16.79 | 485 | 1500 | 35 / 30 |
| TW490MBIT-100-D | 35.02 | 17.99 | 28.98 | 16.88 | 490 | 1500 | 35 / 30 |
| TW495MBIT-100-D | 35.19 | 18.04 | 29.17 | 16.97 | 495 | 1500 | 35 / 30 |
| TW500MBIT-100-D | 35.36 | 18.09 | 29.36 | 17.06 | 500 | 1500 | 35 / 30 |
| TW505MBIT-100-D | 35.53 | 18.14 | 29.54 | 17.10 | 505 | 1500 | 35 / 30 |
| TW510MBIT-100-D | 35.70 | 18.19 | 29.72 | 17.16 | 510 | 1500 | 35 / 30 |

**NOTE:** This appendix is valid when used with the certificate.



CHINA QUALITY CERTIFICATION CENTRE