



**CERTIFIED**

# Certificate of Compliance

**Certificate No.:** MR 50680808  
**Issue No.:** 0001  
**Report No.:** CN25TWMR 001  
**License Holder:** Tongwei Co.,Ltd.  
 No.588,Middle Section Tianfu Avenue,  
 High-Tech Zone,Chengdu,  
 China(Sichuan)Pilot Free Trade Zone,  
 Chengdu,  
 610041 Sichuan  
 P.R. China

**Product:** PV module

**Type of product certification scheme:** Type Approval + Initial Factory Inspection + Surveillance

having complied with the following requirements:

**MCS 005 ISSUE 4.0**  
**MCS 010 ISSUE 2.0**  
**MCS 011 ISSUE 2.1**

The license holder is authorized to use the MCS Certification Mark in association with the listed products. The validity of this certificate is maintained in accordance with the requirements of MCS (Microgeneration Certification Scheme) and MS-0049049 MCS Certification Process, which include annual factory production control surveillance assessments.

**Date of issue:** 2025-06-06

**Date of expiry:** 2030-06-05

**Certification body:** TÜV Rheinland (China) Ltd.

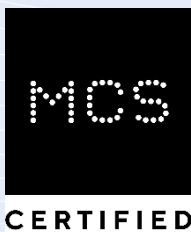
**Certifier name and signature:** Angela Yao



This certificate is based on testing and certification regulation of TÜV Rheinland (China) Ltd. and remains the property thereof. You can contact us at [MCS@CHN.TUV.COM](mailto:MCS@CHN.TUV.COM). To check the validity of this certificate please visit [MCS Certified Directory](http://MCS Certified Directory) or contact us.

TÜV Rheinland (China) Ltd., Room 301, 3F and Room 1203, 12F, Building 4, No. 15, Ronghua South Road, Beijing Economic-Technological Development Area, Beijing (Yizhuang group in high-end industrial area of Beijing Pilot Free Trade Zone), P.R. China, 100176

Tel: +86 10 8524 2222 Fax: +86 10 8524 2200



# Certificate of Compliance

**Certificate No.:** MR 50680808

**Issue No.:** 0001

**Report No.:** CN25TWMR 001

**License Holder:** Tongwei Co.,Ltd.  
No.588,Middle Section Tianfu Avenue,  
High-Tech Zone,Chengdu,  
China(Sichuan)Pilot Free Trade Zone,  
Chengdu,  
610041 Sichuan  
P.R. China

## Product information:

### Models

Max. system voltage: up to 1500 VDC (Voc at STC):

With 1/2 cut of PERC mono c-Si cells (Under STC):

TWMPD-78HDxxx (xxx=570-615, in steps of 5, 156 cells)

TWMPD-72HDxxx (xxx=525-565, in steps of 5, 144 cells)

TWMPD-66HDxxx (xxx=480-520, in steps of 5, 132 cells)

TWMPD-60HDxxx (xxx=440-470, in steps of 5, 120 cells)

TWMPD-54HDxxx (xxx=395-425, in steps of 5, 108 cells)

TWMPG-72HDxxx (xxx=560-590, in steps of 5, 144 cells)

TWMPG-54HDxxx (xxx=420-440, in steps of 5, 108 cells)

TWMPG-54HCxxx (xxx=420-440, in steps of 5, 108 cells)

TWMPH-66HDxxx (xxx=575-585, in steps of 5, 132 cells)

TWMPH-60HDxxx (xxx=525-530, in steps of 5, 120 cells)

TWMPH-48HDxxx (xxx=420-425, in steps of 5, 96 cells)

TWMPH-48HCxxx (xxx=420-425, in steps of 5, 96 cells)

TWMPF-66HDxxx (xxx=635-685, in steps of 5, 132 cells)

TWMPF-60HDxxx (xxx=580-620, in steps of 5, 120 cells)

TWMPF-54HDxxx (xxx=520-560, in steps of 5, 108 cells)

TWMPF-55HDxxx (xxx=530-565, in steps of 5, 110 cells)

TWMPF-50HDxxx (xxx=480-510, in steps of 5, 100 cells)

With 1/2 cut of PERC mono c-Si cells (Under BNPI):

TWMPD-78HDxxx

(xxx=621.7,627.2,632.3,637.8,643.4,648.9,654.1,660.2,665.3,671.0, 156cells)

TWMPD-72HDxxx (xxx=572.6,577.9,583.6,589.3,594.2,600.0,605.4,611.3,616.7, 144 cells)

TWMPD-66HDxxx (xxx=523.4,528.8,534.2,539.6,545.1,550.6,556.1,561.7,566.9, 132 cells)

TWMPD-60HDxxx

(xxx=479.6,485.1,490.6,496.2,501.7,507.0,512.3, 120 cells)

TWMPD-54HDxxx



This certificate is based on testing and certification regulation of TÜV Rheinland (China) Ltd. and remains the property thereof.  
You can contact us at [MCS@CHN.TUV.COM](mailto:MCS@CHN.TUV.COM). To check the validity of this certificate please visit [MCS Certified Directory](http://MCS Certified Directory) or contact us.

TÜV Rheinland (China) Ltd., Room 301, 3F and Room 1203, 12F, Building 4, No. 15, Ronghua South Road, Beijing Economic-Technological Development Area, Beijing (Yizhuang group in high-end industrial area of Beijing Pilot Free Trade Zone), P.R. China, 100176

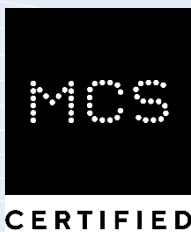
Tel: +86 10 8524 2222 Fax: +86 10 8524 2200

[www.tuv.com](http://www.tuv.com)



中国认可  
产品  
PRODUCT  
CNAS C144-P

 **TÜVRheinland®**  
Precisely Right.



# Certificate of Compliance

**Certificate No.:** MR 50680808

**Issue No.:** 0001

**Report No.:** CN25TWMR 001

**License Holder:** Tongwei Co.,Ltd.  
No.588,Middle Section Tianfu Avenue,  
High-Tech Zone,Chengdu,  
China(Sichuan)Pilot Free Trade Zone,  
Chengdu,  
610041 Sichuan  
P.R. China

## Product information:

### Models

(xxx=430.6,436.1,441.6,447.1,452.7,458.3,464.0, 108 cells)  
TWMPG-72HDxxx

(xxx=610.8,616.3,621.7,627.2,632.7,638.2,643.8, 144 cells)  
TWMPG-54HDxxx (xxx=458.2,463.5,468.8,474.5,480.0, 108 cells)  
TWMPG-54HCxxx (xxx=458.2,463.5,468.8,474.5,480.0, 108 cells)  
TWMPH-66HDxxx (xxx=627.3,632.4,638.4, 132 cells)  
TWMPH-60HDxxx (xxx=572.7,578.1, 120 cells)  
TWMPH-48HDxxx (xxx=457.9,463.5, 96 cells)  
TWMPH-48HCxxx (xxx=457.9,463.5, 96 cells)  
TWMPF-66HDxxx  
(xxx=692.3,697.9,703.5,708.8,714.4,719.7,725.0,730.8,736.1,741.9,747.2,132 cells)  
TWMPF-60HDxxx (xxx=632.4,637.8,643.3,648.8,654.3,659.8,665.0,670.7,676.2, 120 cells)  
TWMPF-54HDxxx (xxx=567.0,572.6,577.9,583.6,589.0,594.4,599.8,605.3,610.8, 108 cells)  
TWMPF-55HDxxx  
(xxx=578.5,583.8,589.4,594.1,599.4,605.1,610.5,616.2, 110 cells)  
TWMPF-50HDxxx  
(xxx=523.5,528.8,534.5,539.8,545.3,551.0,556.2, 100 cells)  
With 1/2 cut of TOPCon mono c-Si cells (Under STC):  
TWMND-78HDxxx (xxx=580-650, in steps of 5, 156 cells)  
TWMND-72HDxxx (xxx=535-600, in steps of 5, 144 cells)  
TWMND-66HDxxx (xxx=490-550, in steps of 5, 132 cells)  
TWMND-60HDxxx (xxx=445-500, in steps of 5, 120 cells)  
TWMND-54HDxxx (xxx=400-450, in steps of 5, 108 cells)  
TWMNG-72HDxxx (xxx=580-615, in steps of 5, 144 cells)  
TWMNG-60HDxxx (xxx=485-510, in steps of 5, 120 cells)  
TWMNG-60HCxxx (xxx=485-510, in steps of 5, 120 cells)  
TWMNG-54HDxxx (xxx=435-460, in steps of 5, 108 cells)

This certificate is based on testing and certification regulation of TÜV Rheinland (China) Ltd. and remains the property thereof.  
You can contact us at [MCS@CHN.TUV.COM](mailto:MCS@CHN.TUV.COM). To check the validity of this certificate please visit [MCS Certified Directory](http://MCS Certified Directory) or contact us.

TÜV Rheinland (China) Ltd., Room 301, 3F and Room 1203, 12F, Building 4, No. 15, Ronghua South Road, Beijing Economic-Technological Development Area, Beijing (Yizhuang group in high-end industrial area of Beijing Pilot Free Trade Zone), P.R. China, 100176

Tel: +86 10 8524 2222 Fax: +86 10 8524 2200





# Certificate of Compliance

**Certificate No.:** MR 50680808

**Issue No.:** 0001

**Report No.:** CN25TWMR 001

**License Holder:** Tongwei Co.,Ltd.  
No.588,Middle Section Tianfu Avenue,  
High-Tech Zone,Chengdu,  
China(Sichuan)Pilot Free Trade Zone,  
Chengdu,  
610041 Sichuan  
P.R. China

## Product information:

### Models

TWMNG-54HCxxx (xxx=435-460, in steps of 5, 108 cells)

TWMNH-66HDxxx (xxx=580-640, in steps of 5, 132 cells)

TWMNH-60HDxxx (xxx=530-580, in steps of 5, 120 cells)

TWMNH-54HDxxx (xxx=475-520, in steps of 5, 108 cells)

TWMNH-54HCxxx (xxx=475-520, in steps of 5, 108 cells)

TWMNH-48HDxxx (xxx=420-465, in steps of 5, 96 cells)

TWMNH-48HCxxx (xxx=420-465, in steps of 5, 96 cells)

TWMNH-48HExxx (xxx=425-470, in steps of 5, 96 cells)

TWMNH-48HWxxx (xxx=425-475, in steps of 5, 96 cells)

TWMNF-66HDxxx (xxx=665-740, in steps of 5, 132 cells)

TWMNF-60HDxxx (xxx=605-670, in steps of 5, 120 cells)

TWMNF-54HDxxx (xxx=545-605, in steps of 5, 108 cells)

TWMNF-55HDxxx (xxx=530-565, in steps of 5, 110 cells)

TWMNF-50HDxxx (xxx=480-510, in steps of 5, 100 cells)

With 1/2 cut of TOPCon mono c-Si cells (Under BNPI):

TWMND-78HDxxx  
(xxx=640.8,645.9,651.5,656.7,662.8,668.4,673.7,679.4,  
685.1,689.9,695.7,701.0,706.8,712.3,717.6, 156 cells)

TWMND-72HDxxx  
(xxx=590.9,596.2,602.0,607.4,612.8,618.6,624.1,629.5,  
635.0,640.5,646.1,651.6,656.8,662.5, 144 cells)

TWMND-66HDxxx  
(xxx=541.2,546.6,552.1,557.7,563.2,568.8,574.0,579.6,  
585.2,590.9,596.2,601.7,607.3, 132 cells)

TWMND-60HDxxx  
(xxx=491.3,496.8,502.4,508.0,513.6,519.3,524.6,530.0,  
535.3,541.1,546.6,552.2, 120 cells)

This certificate is based on testing and certification regulation of TÜV Rheinland (China) Ltd. and remains the property thereof.  
You can contact us at [MCS@CHN.TUV.COM](mailto:MCS@CHN.TUV.COM). To check the validity of this certificate please visit [MCS Certified Directory](http://MCS Certified Directory) or contact us.

TÜV Rheinland (China) Ltd., Room 301, 3F and Room 1203, 12F, Building 4, No. 15, Ronghua South Road, Beijing Economic-Technological Development Area, Beijing (Yizhuang group in high-end industrial area of Beijing Pilot Free Trade Zone), P.R. China,100176

Tel: +86 10 8524 2222 Fax: +86 10 8524 2200

[www.tuv.com](http://www.tuv.com)



中国认可  
产品  
PRODUCT  
CNAS C144-P

 TÜVRheinland®  
Precisely Right.



# Certificate of Compliance

**Certificate No.:** MR 50680808

**Issue No.:** 0001

**Report No.:** CN25TWMR 001

**License Holder:** Tongwei Co.,Ltd.  
No.588,Middle Section Tianfu Avenue,  
High-Tech Zone,Chengdu,  
China(Sichuan)Pilot Free Trade Zone,  
Chengdu,  
610041 Sichuan  
P.R. China

## Product information:

### Models

TWMND-54HDxxx  
(xxx=441.9,447.2,452.8,458.2,463.8,469.2,474.6,480.4,485.9,491.4,496.9,108 cells)

TWMNG-72HDxxx  
(xxx=640.8,645.9,651.5,657.1,662.8,668.0,673.7,678.9,144 cells)

TWMNG-60HDxxx (xxx=535.5,541.2,546.7,552.2,557.7,563.2,120 cells)

TWMNG-60HCxxx (xxx=535.5,541.2,546.7,552.2,557.7,563.2,120 cells)

TWMNG-54HDxxx (xxx=480.6,486.2,491.2,496.8,502.5,507.9,108 cells)

TWMNG-54HCxxx (xxx=480.6,486.2,491.2,496.8,502.5,507.9,108 cells)

TWMNH-66HDxxx  
(xxx=640.3,646.0,651.4,656.9,662.3,667.9,673.6,678.9,  
684.6,690.2,695.4,701.1,706.8,132 cells)

TWMNH-60HDxxx  
(xxx=585.4,590.7,596.3,602.0,607.2,612.9,618.1,623.9,629.5,634.8,640.5,120 cells)

TWMNH-54HDxxx  
(xxx=524.4,530.1,535.4,540.8,546.6,552.0,  
557.6,563.1,568.8,574.1,108 cells)

TWMNH-54HCxxx  
(xxx=524.4,530.1,535.4,540.8,546.6,552.0,  
557.6,563.1,568.8,574.1,108 cells)

TWMNH-48HDxxx  
(xxx=463.5,469.3,474.7,480.4,485.7,491.5,496.9,502.3,507.9,513.3,96cells)

TWMNH-48HCxxx  
(xxx=463.5,469.3,474.7,480.4,485.7,491.5,496.9,502.3,507.9,513.3,96cells)

TWMNF-66HDxxx  
(xxx=734.3,739.6,745.4,750.3,756.1,761.9,767.4,772.7,  
778.4,783.7,789.4,794.8,800.5,805.9,811.5,817.1,132 cells)

TWMNF-60HDxxx



This certificate is based on testing and certification regulation of TÜV Rheinland (China) Ltd. and remains the property thereof.  
You can contact us at [MCS@CHN.TUV.COM](mailto:MCS@CHN.TUV.COM). To check the validity of this certificate please visit [MCS Certified Directory](http://MCS Certified Directory) or contact us.

TÜV Rheinland (China) Ltd., Room 301, 3F and Room 1203, 12F, Building 4, No. 15, Ronghua South Road, Beijing Economic-Technological Development Area, Beijing (Yizhuang group in high-end industrial area of Beijing Pilot Free Trade Zone), P.R. China,100176

Tel: +86 10 8524 2222 Fax: +86 10 8524 2200

[www.tuv.com](http://www.tuv.com)



中国认可  
产品  
PRODUCT  
CNAS C144-P

 **TÜVRheinland®**  
Precisely Right.



CERTIFIED

# Certificate of Compliance

**Certificate No.:** MR 50680808  
**Issue No.:** 0001  
**Report No.:** CN25TWMR 001  
**License Holder:** Tongwei Co.,Ltd.  
 No.588,Middle Section Tianfu Avenue,  
 High-Tech Zone,Chengdu,  
 China(Sichuan)Pilot Free Trade Zone,  
 Chengdu,  
 610041 Sichuan  
 P.R. China

## Product information:

### Models

(xxx=668.0,673.5,679.1,684.3,689.9,695.6,700.9,706.8,  
 712.1,717.8,723.1,728.8,734.0,739.8, 120 cells)  
 TWMNF-54HDxxx  
 (xxx=601.7,607.1,612.7,618.1,623.8,629.3,634.8,640.6,  
 645.9,651.4,656.9,662.3,668.1, 108 cells)  
 TWMNF-55HDxxx  
 (xxx=585.0,590.7,596.0,601.7,607.1,612.8,618.5,623.7, 110 cells)  
 TWMNF-50HDxxx  
 (xxx=529.7,535.5,541.1,546.4,552.8,557.7,562.9, 100 cells)  
 With 1/2 cut of HJT mono c-Si cells (Under STC):  
 TWMHF-66HDxxx (xxx=660-740, in steps of 5, 132 cells)  
 TWMHF-60HDxxx (xxx=600-670, in steps of 5, 120 cells)  
 With 1/2 cut of HJT mono c-Si cells (Under BNPI):  
 TWMHF-66HDxxx  
 (xxx=735.8,741.5,747.0,752.7,758.2,763.8,769.5,774.7,  
 780.3,785.9,791.6,797.1,802.7,808.2,814,819.5,825.2, 132 cells)  
 TWMHF-60HDxxx  
 (xxx=668.9,674.4,680.0,685.5,691.1,696.7,702.5,708.2,  
 713.7,719.3,724.9,730.4,735.9,741.5,747.1, 120 cells)  
 xxx represents output power in Wp

### Remarks

NA.



This certificate is based on testing and certification regulation of TÜV Rheinland (China) Ltd. and remains the property thereof.  
 You can contact us at [MCS@CHN.TUV.COM](mailto:MCS@CHN.TUV.COM). To check the validity of this certificate please visit [MCS Certified Directory](http://MCS.Certified.Directory) or contact us.

TÜV Rheinland (China) Ltd., Room 301, 3F and Room 1203, 12F, Building 4, No. 15, Ronghua South Road, Beijing Economic-Technological Development Area, Beijing (Yizhuang group in high-end industrial area of Beijing Pilot Free Trade Zone), P.R. China,100176

Tel: +86 10 8524 2222 Fax: +86 10 8524 2200

[www.tuv.com](http://www.tuv.com)



中国认可  
 产品  
 PRODUCT  
 CNAS C144-P

 TÜVRheinland®  
 Precisely Right.



**CERTIFIED**

# Certificate of Compliance

**Certificate No.:** MR 50680808

**Issue No.:** 0001

**Report No.:** CN25TWMR 001

**License Holder:** Tongwei Co.,Ltd.  
No.588,Middle Section Tianfu Avenue,  
High-Tech Zone,Chengdu,  
China(Sichuan)Pilot Free Trade Zone,  
Chengdu,  
610041 Sichuan  
P.R. China

## Factories

- 1 Tongwei Solar (Hefei) Co., Ltd.  
No. 888, Changning Road,  
High-tech District, Hefei,  
Anhui Province, 230088,  
P.R. China
- 2 Tongwei Solar (Yancheng) Co., LTD  
No. 88, Jiuhuashan Road, Economic Development Zone,  
Yancheng City,  
Jiangsu  
P.R. China
- 3 Tongwei Solar (Sichuan) Co., LTD  
No.888, Jilin East Road, Huai Kou Street,  
Jintang County, Chengdu City,  
Sichuan  
P.R. China
- 4 Tongwei Solar (Nantong) Co., Ltd.  
No.8 Bonded 10 Road, Economic Development Zone  
Nantong City  
Jiangsu  
P.R. China
- 5 Tongwei Solar (Chengdu) Co., Ltd.  
No.888, Linjiaci Road,  
Huangjia Subdistrict, Shuangliu District,  
Chengdu City,  
610000 Sichuan  
P.R. China



This certificate is based on testing and certification regulation of TÜV Rheinland (China) Ltd. and remains the property thereof.  
You can contact us at [MCS@CHN.TUV.COM](mailto:MCS@CHN.TUV.COM). To check the validity of this certificate please visit [MCS Certified Directory](http://MCS.Certified.Directory) or contact us.

TÜV Rheinland (China) Ltd., Room 301, 3F and Room 1203, 12F, Building 4, No. 15, Ronghua South Road, Beijing Economic-Technological Development Area, Beijing (Yizhuang group in high-end industrial area of Beijing Pilot Free Trade Zone), P.R. China, 100176

Tel: +86 10 8524 2222 Fax: +86 10 8524 2200

[www.tuv.com](http://www.tuv.com)



中国认可  
产品  
PRODUCT  
CNAS C144-P



**TÜVRheinland®**  
Precisely Right.