

Certificate of conformity with the following European Directives

Registered No.:
44 799 23 406749 - 285

Low-Voltage Directive 2014/35/EU

Date of application	File reference	Test report No.	Date of issue	Place of issue
2023-08-24	PVP08161/23P-01	492012694.001	2023-08-31	Essen

This is to certify that the following products comply to the essential requirements of the above mentioned European Directive and the following standards, taking into account the German national deviations:

Product: Crystalline Silicon Terrestrial Photovoltaic (PV) Modules

Type designation: See Annex 1

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

Standard(s): EN IEC 61730-1:2018; EN IEC 61730-1:2018/AC:2018-06
EN IEC 61730-2:2018; EN IEC 61730-2:2018/AC:2018-06

This Certificate of conformity is based on the evaluation of samples of the product. It does not imply an assessment of the production and it does not permit the use of a mark of conformity or of a safety mark of the TÜV NORD CERT GmbH. The holder of this certificate may use this Certificate together with his EC-Declaration of Conformity.



Certification Body
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Description of product(s):

Module types: **PV Modules with Segmented 6" Mono-crystalline Silicon Solar Cells:**
408 cells: THxxxCM5-72S (xxx = 350-390, in increment of 5)
340 cells: THxxxCM5-60S (xxx = 290-325, in increment of 5)

Module types: **PV Modules with Segmented 6" PERC Mono-crystalline Silicon Solar Cells:**
432 cells: THxxxPM5-78S (xxx = 445-480, in increment of 5)
432 cells: THxxxPM5-78SA (xxx = 445-480, in increment of 5)
432 cells: THxxxPM5-78SAF (xxx = 445-480, in increment of 5)
432 cells: THxxxPM5-78SAS (xxx = 445-480, in increment of 5)
432 cells: THxxxPMB5-78S (xxx = 445-480, in increment of 5)
432 cells: THxxxPMB5-78SA (xxx = 445-480, in increment of 5)
432 cells: THxxxPMB5-78SAF (xxx = 445-480, in increment of 5)
432 cells: THxxxPMB5-78SAS (xxx = 445-480, in increment of 5)
408 cells: THxxxPM5-72S (xxx = 395-455, in increment of 5)
408 cells: THxxxPM5-72SF (xxx = 395-435, in increment of 5)
408 cells: THxxxPM5-72SS (xxx = 395-435, in increment of 5)
408 cells: THxxxPM5-72SA (xxx = 420-455, in increment of 5)
408 cells: THxxxPM5-72SAF (xxx = 420-455, in increment of 5)
408 cells: THxxxPM5-72SAS (xxx = 420-455, in increment of 5)
408 cells: THxxxPM5-72SB (xxx = 460-500, in increment of 5)
408 cells: THxxxPM5-72SBF (xxx = 460-500, in increment of 5)
408 cells: THxxxPM5-72SBS (xxx = 460-500, in increment of 5)
408 cells: THxxxPMB5-72S (xxx = 395-455, in increment of 5)
408 cells: THxxxPMB5-72SF (xxx = 395-435, in increment of 5)
408 cells: THxxxPMB5-72SS (xxx = 395-435, in increment of 5)
408 cells: THxxxPMB5-72SA (xxx = 420-455, in increment of 5)
408 cells: THxxxPMB5-72SAF (xxx = 420-455, in increment of 5)
408 cells: THxxxPMB5-72SAS (xxx = 420-455, in increment of 5)
408 cells: THxxxPMB5-72SB (xxx = 460-505, in increment of 5)
408 cells: THxxxPMB5-72SBF (xxx = 460-500, in increment of 5)
408 cells: THxxxPMB5-72SBS (xxx = 460-505, in increment of 5)

360 cells: THxxxPM5-66S (xxx = 370-400, in increment of 5)
360 cells: THxxxPM5-66SA (xxx = 370-400, in increment of 5)
360 cells: THxxxPM5-66SAF (xxx = 370-400, in increment of 5)
360 cells: THxxxPM5-66SAS (xxx = 370-400, in increment of 5)
360 cells: THxxxPMB5-66S (xxx = 370-400, in increment of 5)
360 cells: THxxxPMB5-66SA (xxx = 370-400, in increment of 5)
360 cells: THxxxPMB5-66SAF (xxx = 370-400, in increment of 5)
360 cells: THxxxPMB5-66SAS (xxx = 370-400, in increment of 5)
340 cells: THxxxPM5-60S (xxx = 325-380, in increment of 5)
340 cells: THxxxPM5-60SA (xxx = 350-380, in increment of 5)
340 cells: THxxxPM5-60SAF (xxx = 350-380, in increment of 5)
340 cells: THxxxPM5-60SAS (xxx = 350-380, in increment of 5)
340 cells: THxxxPM5-60SF (xxx = 325-360, in increment of 5)
340 cells: THxxxPM5-60SS (xxx = 325-360, in increment of 5)
340 cells: THxxxPM5-60SB (xxx = 380-415, in increment of 5)
340 cells: THxxxPM5-60SBF (xxx = 380-415, in increment of 5)
340 cells: THxxxPM5-60SBS (xxx = 380-415, in increment of 5)
340 cells: THxxxPMB5-60SB (xxx = 380-420, in increment of 5)
340 cells: THxxxPMB5-60SBF (xxx = 380-415, in increment of 5)
340 cells: THxxxPMB5-60SBS (xxx = 380-420, in increment of 5)
340 cells: THxxxPMB5-60S (xxx = 325-380, in increment of 5)
340 cells: THxxxPMB5-60SA (xxx = 350-380, in increment of 5)
340 cells: THxxxPMB5-60SF (xxx = 325-360, in increment of 5)
340 cells: THxxxPMB5-60SS (xxx = 325-360, in increment of 5)
340 cells: THxxxPMB5-60SAF (xxx = 350-380, in increment of 5)
340 cells: THxxxPMB5-60SAS (xxx = 350-380, in increment of 5)

Module types:

PV Modules with Segmented 8" PERC Mono-crystalline Silicon Solar Cells:

414 cells: THxxxPM6-69SC (xxx = 645-655, in increment of 5)
414 cells: THxxxPMB6-69SC (xxx = 645-670, in increment of 5)
408 cells: THxxxPM6-68SC (xxx = 635-655, in increment of 5)
408 cells: THxxxPMB6-68SC (xxx = 635-660, in increment of 5)
390 cells: THxxxPM6-65SC (xxx = 605-625, in increment of 5)



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390 cells: THxxxPMB6-65SC (xxx = 605-630, in increment of 5)
345 cells: THxxxPM6-58SC (xxx = 535-550, in increment of 5)
345 cells: THxxxPMB6-58SC (xxx = 535-555, in increment of 5)
340 cells: THxxxPM6-57SC (xxx = 530-545, in increment of 5)
340 cells: THxxxPMB6-57SC (xxx = 530-550, in increment of 5)
325 cells: THxxxPM6-54SC (xxx = 505-520, in increment of 5)
325 cells: THxxxPMB6-54SC (xxx = 505-525, in increment of 5)
320 cells: THxxxPMB7-46SC (xxx = 425-445, in increment of 5)
320 cells: THxxxPMB7-46SCS (xxx = 425-445, in increment of 5)
320 cells: THxxxPMB7-46SCF (xxx = 420-440, in increment of 5)
305 cells: THxxxPMB7-44SC (xxx = 405-425, in increment of 5)
305 cells: THxxxPMB7-44SCS (xxx = 405-425, in increment of 5)
305 cells: THxxxPMB7-44SCF (xxx = 400-420, in increment of 5)

Module types:

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

156 cells: TWMPD-78HSxxx (xxx = 570-620, in increment of 5)
156 cells: TWMPD-78HBxxx (xxx = 570-620, in increment of 5)
156 cells: TWxxxMAP-156-H (xxx = 580-605, in increment of 5)
156 cells: TWxxxMAP-156-H-S (xxx = 580-605, in increment of 5)
156 cells: TWxxxMAP-156-H-F (xxx = 580-605, in increment of 5)
156 cells: TWxxxMGP-156-H (xxx = 570-620, in increment of 5)
156 cells: TWxxxMGP-156-H-S (xxx = 570-620, in increment of 5)
156 cells: TWxxxMGP-156-H-F (xxx = 570-620, in increment of 5)
144 cells: TWMPD-72HSxxx (xxx = 525-570, in increment of 5)
144 cells: TWMPD-72HBxxx (xxx = 525-570, in increment of 5)
144 cells: TWxxxMAP-144-H (xxx = 530-565, in increment of 5)
144 cells: TWxxxMAP-144-H-S (xxx = 530-565, in increment of 5)
144 cells: TWxxxMAP-144-H-F (xxx = 530-565, in increment of 5)
144 cells: TWxxxMGP-144-H (xxx = 525-570, in increment of 5)
144 cells: TWxxxMGP-144-H-S (xxx = 525-570, in increment of 5)
144 cells: TWxxxMGP-144-H-F (xxx = 525-570, in increment of 5)
132 cells: TWMPD-66HSxxx (xxx = 480-525, in increment of 5)
132 cells: TWMPD-66HBxxx (xxx = 480-525, in increment of 5)
132 cells: TWxxxMAP-132-H (xxx = 485-515, in increment of 5)



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132 cells: TWxxxMAP-132-H-S (xxx = 485-515, in increment of 5)
132 cells: TWxxxMAP-132-H-F (xxx = 485-515, in increment of 5)
132 cells: TWxxxMGP-132-H (xxx = 480-525, in increment of 5)
132 cells: TWxxxMGP-132-H-S (xxx = 480-525, in increment of 5)
132 cells: TWxxxMGP-132-H-F (xxx = 480-525, in increment of 5)
120 cells: TWMPD-60HSxxx (xxx = 440-475, in increment of 5)
120 cells: TWMPD-60HBxxx (xxx = 440-475, in increment of 5)
120 cells: TWxxxMAP-120-H (xxx = 440-470, in increment of 5)
120 cells: TWxxxMAP-120-H-S (xxx = 440-470, in increment of 5)
120 cells: TWxxxMAP-120-H-F (xxx = 440-470, in increment of 5)
120 cells: TWxxxMGP-120-H (xxx = 440-475, in increment of 5)
120 cells: TWxxxMGP-120-H-S (xxx = 440-475, in increment of 5)
120 cells: TWxxxMGP-120-H-F (xxx = 440-475, in increment of 5)
108 cells: TWMPD-54HSxxx (xxx = 395-430, in increment of 5)
108 cells: TWMPD-54HBxxx (xxx = 395-430, in increment of 5)
108 cells: TWxxxMAP-108-H (xxx = 400-420, in increment of 5)
108 cells: TWxxxMAP-108-H-S (xxx = 400-420, in increment of 5)
108 cells: TWxxxMAP-108-H-F (xxx = 400-420, in increment of 5)
108 cells: TWxxxMGP-108-H (xxx = 395-430, in increment of 5)
108 cells: TWxxxMGP-108-H-S (xxx = 395-430, in increment of 5)
108 cells: TWxxxMGP-108-H-F (xxx = 395-430, in increment of 5)
144 cells: TWMPG-72HSxxx (xxx = 565-590, in increment of 5)
144 cells: TWMPG-72HBxxx (xxx = 565-590, in increment of 5)
108 cells: TWMPG-54HSxxx (xxx = 420-440, in increment of 5)
108 cells: TWMPG-54HBxxx (xxx = 420-440, in increment of 5)

Module types:

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

156 cells: TWMND-78HSxxx (xxx = 570-640, in increment of 5)
156 cells: TWMND-78HBxxx (xxx = 570-640, in increment of 5)
156 cells: TWxxxMGT-156-H (xxx = 570-640, in increment of 5)
156 cells: TWxxxMGT-156-H-S (xxx = 570-640, in increment of 5)
156 cells: TWxxxMGT-156-H-F (xxx = 570-640, in increment of 5)
144 cells: TWMND-72HSxxx (xxx = 525-590, in increment of 5)



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144 cells: TWMND-72HBxxx (xxx = 525-590, in increment of 5)
144 cells: TWxxxMGT-144-H (xxx = 525-590, in increment of 5)
144 cells: TWxxxMGT-144-H-S (xxx = 525-590, in increment of 5)
144 cells: TWxxxMGT-144-H-F (xxx = 525-590, in increment of 5)
132 cells: TWMND-66HSxxx (xxx = 485-540, in increment of 5)
132 cells: TWMND-66HBxxx (xxx = 485-540, in increment of 5)
132 cells: TWxxxMGT-132-H (xxx = 485-540, in increment of 5)
132 cells: TWxxxMGT-132-H-S (xxx = 485-540, in increment of 5)
132 cells: TWxxxMGT-132-H-F (xxx = 485-540, in increment of 5)
120 cells: TWMND-60HSxxx (xxx = 440-490, in increment of 5)
120 cells: TWMND-60HBxxx (xxx = 440-490, in increment of 5)
120 cells: TWxxxMGT-120-H (xxx = 440-490, in increment of 5)
120 cells: TWxxxMGT-120-H-S (xxx = 440-490, in increment of 5)
120 cells: TWxxxMGT-120-H-F (xxx = 440-490, in increment of 5)
108 cells: TWMND-54HSxxx (xxx = 395-440, in increment of 5)
108 cells: TWMND-54HBxxx (xxx = 395-440, in increment of 5)
108 cells: TWxxxMGT-108-H (xxx = 395-440, in increment of 5)
108 cells: TWxxxMGT-108-H-S (xxx = 395-440, in increment of 5)
108 cells: TWxxxMGT-108-H-F (xxx = 395-440, in increment of 5)
144 cells: TWMNG-72HSxxx (xxx = 585-610, in increment of 5)
144 cells: TWMNG-72HBxxx (xxx = 585-610, in increment of 5)
108 cells: TWMNG-54HSxxx (xxx = 435-455, in increment of 5)
108 cells: TWMNG-54HBxxx (xxx = 435-455, in increment of 5)

Module types:

PV Modules with Half-cut 8" PERC Mono-crystalline Silicon Solar Cells:

132 cells: TWMPF-66HSxxx (xxx = 640-695, in increment of 5)
132 cells: TWMPF-66HBxxx (xxx = 640-695, in increment of 5)
132 cells: TWxxxMIP-132-H (xxx = 640-695, in increment of 5)
132 cells: TWxxxMIP-132-H-S (xxx = 640-695, in increment of 5)
132 cells: TWxxxMIP-132-H-F (xxx = 640-695, in increment of 5)
132 cells: TWxxxMCP-132-H (xxx = 640-670, in increment of 5)
132 cells: TWxxxMCP-132-H-S (xxx = 640-670, in increment of 5)
132 cells: TWxxxMCP-132-H-F (xxx = 640-670, in increment of 5)
120 cells: TWMPF-60HSxxx (xxx = 580-630, in increment of 5)



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120 cells: TWMPF-60HBxxx (xxx = 580-630, in increment of 5)
120 cells: TWxxxMIP-120-H (xxx = 580-630, in increment of 5)
120 cells: TWxxxMIP-120-H-S (xxx = 580-630, in increment of 5)
120 cells: TWxxxMIP-120-H-F (xxx = 580-630, in increment of 5)
120 cells: TWxxxMCP-120-H (xxx = 580-610, in increment of 5)
120 cells: TWxxxMCP-120-H-S (xxx = 580-610, in increment of 5)
120 cells: TWxxxMCP-120-H-F (xxx = 580-610, in increment of 5)
108 cells: TWMPF-54HSxxx (xxx = 525-565, in increment of 5)
108 cells: TWMPF-54HBxxx (xxx = 525-565, in increment of 5)
108 cells: TWxxxMIP-108-H (xxx = 525-565, in increment of 5)
108 cells: TWxxxMIP-108-H-S (xxx = 525-565, in increment of 5)
108 cells: TWxxxMIP-108-H-F (xxx = 525-565, in increment of 5)
108 cells: TWxxxMCP-108-H (xxx = 525-545, in increment of 5)
108 cells: TWxxxMCP-108-H-S (xxx = 525-545, in increment of 5)
108 cells: TWxxxMCP-108-H-F (xxx = 525-545, in increment of 5)
110 cells: TWMPF-55HSxxx (xxx = 535-580, in increment of 5)
110 cells: TWMPF-55HBxxx (xxx = 535-580, in increment of 5)
110 cells: TWxxxMIP-110-H (xxx = 535-580, in increment of 5)
110 cells: TWxxxMIP-110-H-S (xxx = 535-580, in increment of 5)
110 cells: TWxxxMIP-110-H-F (xxx = 535-580, in increment of 5)
110 cells: TWxxxMCP-110-H (xxx = 535-580, in increment of 5)
110 cells: TWxxxMCP-110-H-S (xxx = 535-580, in increment of 5)
110 cells: TWxxxMCP-110-H-F (xxx = 535-580, in increment of 5)
100 cells: TWMPF-50HSxxx (xxx = 485-525, in increment of 5)
100 cells: TWMPF-50HBxxx (xxx = 485-525, in increment of 5)
100 cells: TWxxxMIP-100-H (xxx = 485-525, in increment of 5)
100 cells: TWxxxMIP-100-H-S (xxx = 485-525, in increment of 5)
100 cells: TWxxxMIP-100-H-F (xxx = 485-525, in increment of 5)
100 cells: TWxxxMCP-100-H (xxx = 485-525, in increment of 5)
100 cells: TWxxxMCP-100-H-S (xxx = 485-525, in increment of 5)
100 cells: TWxxxMCP-100-H-F (xxx = 485-525, in increment of 5)

Module types:

PV Modules with Half-cut 8" TOPCon Mono-crystalline Silicon Solar Cells:

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132 cells: TWMNF-66HSxxx (xxx = 650-700, in increment of 5)
132 cells: TWMNF-66HBxxx (xxx = 650-700, in increment of 5)
132 cells: TWxxxMIT-132-H (xxx = 650-700, in increment of 5)
132 cells: TWxxxMIT-132-H-S (xxx = 650-700, in increment of 5)
132 cells: TWxxxMIT-132-H-F (xxx = 650-700, in increment of 5)
120 cells: TWMNF-60HSxxx (xxx = 590-635, in increment of 5)
120 cells: TWMNF-60HBxxx (xxx = 590-635, in increment of 5)
120 cells: TWxxxMIT-120-H (xxx = 590-635, in increment of 5)
120 cells: TWxxxMIT-120-H-S (xxx = 590-635, in increment of 5)
120 cells: TWxxxMIT-120-H-F (xxx = 590-635, in increment of 5)
108 cells: TWMNF-54HSxxx (xxx = 530-570, in increment of 5)
108 cells: TWMNF-54HBxxx (xxx = 530-570, in increment of 5)
108 cells: TWxxxMIT-108-H (xxx = 530-570, in increment of 5)
108 cells: TWxxxMIT-108-H-S (xxx = 530-570, in increment of 5)
108 cells: TWxxxMIT-108-H-F (xxx = 530-570, in increment of 5)
110 cells: TWMNF-55HSxxx (xxx = 540-580, in increment of 5)
110 cells: TWMNF-55HBxxx (xxx = 540-580, in increment of 5)
110 cells: TWxxxMIT-110-H (xxx = 540-580, in increment of 5)
110 cells: TWxxxMIT-110-H-S (xxx = 540-580, in increment of 5)
110 cells: TWxxxMIT-110-H-F (xxx = 540-580, in increment of 5)
100 cells: TWMNF-50HSxxx (xxx = 490-530, in increment of 5)
100 cells: TWMNF-50HBxxx (xxx = 490-530, in increment of 5)
100 cells: TWxxxMIT-100-H (xxx = 490-530, in increment of 5)
100 cells: TWxxxMIT-100-H-S (xxx = 490-530, in increment of 5)
100 cells: TWxxxMIT-100-H-F (xxx = 490-530, in increment of 5)



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