

# CERTIFICATE

**TÜV NORD CERT GmbH**  
herewith declares that

**TOPCO SOLAR INC.**  
1810 E Sahara Ave Ste 212 #1975,  
Las Vegas, Nevada, 89104,  
USA

is authorized to provide the product mentioned below with the mark as illustrated:

**Description of product (details see Annex 2):**

**Crystalline Silicon Terrestrial Photovoltaic (PV) modules**



Valid from: 2022-10-31

Valid until: 2027-10-19

Certification program:	P12-VA-01 Rev. 17 09.20
Certification fundamental(s):	IEC / EN 61215-1:2016; IEC / EN 61215-1-1:2016; IEC 61215-2:2016 / EN 61215-2:2017 + AC:2017 + AC:2018; IEC 61730-1:2016 / EN IEC 61730-1:2018 + AC:2018; IEC 61730-2:2016 / EN IEC 61730-2:2018 + AC:2018.
Registered No.:	44 780 22 406749 - 059R1M1
Manufacturer:	see Annex 1
Test Report No.:	492011972.002
File No.:	PVP10030/22P



**TÜV NORD CERT GmbH**  
**Certification Body**  
**Consumer Products**



Essen, 2022-10-31

Please also pay attention to the information stated overleaf.

Anlage 1 zum Zertifikat Nr.: / Annex 1 to Certificate No.: 44 780 22 406749 - 059R1M1

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Aktenzeichen: / File reference: PVP10030/22P

2022-10-31

**Manufacturer:**

Manufacturer: **Tongwei Solar (Hefei) Co., Ltd.**  
No.888, Changning Road, High-tech District,  
Hefei City, Anhui Province, 230088, P.R. China

Factory inspection report no.: 862010358.006

**Remark:**

Factory inspection is mandatory to be performed annually. Please refer to factory inspection report for detailed information.



**TÜV NORD CERT GmbH**  
**Certification Body**  
**Consumer Products**

## Description of product(s):

Module types:

### **PV Modules with Segmented 6" PERC Mono-crystalline Silicon Solar Cells**

432 cells: TPxxxPM5-78S (xxx = 445-480, in increment of 5)

432 cells: TPxxxPM5-78SA (xxx = 445-480, in increment of 5)

432 cells: TPxxxPM5-78SAF (xxx = 445-480, in increment of 5)

432 cells: TPxxxPM5-78SAS (xxx = 445-480, in increment of 5)

432 cells: TPxxxPMB5-78S (xxx = 445-480, in increment of 5)

432 cells: TPxxxPMB5-78SA (xxx = 445-480, in increment of 5)

432 cells: TPxxxPMB5-78SAF (xxx = 445-480, in increment of 5)

432 cells: TPxxxPMB5-78SAS (xxx = 445-480, in increment of 5)

408 cells: TPxxxPM5-72S (xxx = 395-455, in increment of 5)

408 cells: TPxxxPM5-72SA (xxx = 420-455, in increment of 5)

408 cells: TPxxxPM5-72SAF (xxx = 420-455, in increment of 5)

408 cells: TPxxxPM5-72SAS (xxx = 420-455, in increment of 5)

408 cells: TPxxxPM5-72SB (xxx = 460-500, in increment of 5)

408 cells: TPxxxPM5-72SBF (xxx = 460-500, in increment of 5)

408 cells: TPxxxPM5-72SBS (xxx = 460-500, in increment of 5)

408 cells: TPxxxPMB5-72SB (xxx = 460-505, in increment of 5)

408 cells: TPxxxPMB5-72SBF (xxx = 460-500, in increment of 5)

408 cells: TPxxxPMB5-72SBS (xxx = 460-505, in increment of 5)

408 cells: TPxxxPM5-72SF (xxx = 395-435, in increment of 5)

408 cells: TPxxxPM5-72SS (xxx = 395-435, in increment of 5)

408 cells: TPxxxPMB5-72S (xxx = 395-455, in increment of 5)

408 cells: TPxxxPMB5-72SA (xxx = 420-455, in increment of 5)

408 cells: TPxxxPMB5-72SAF (xxx = 420-455, in increment of 5)

408 cells: TPxxxPMB5-72SAS (xxx = 420-455, in increment of 5)

408 cells: TPxxxPMB5-72SF (xxx = 395-435, in increment of 5)

408 cells: TPxxxPMB5-72SS (xxx = 395-435, in increment of 5)

360 cells: TPxxxPM5-66S (xxx = 370-400, in increment of 5)

360 cells: TPxxxPM5-66SA (xxx = 370-400, in increment of 5)

360 cells: TPxxxPM5-66SAF (xxx = 370-400, in increment of 5)

360 cells: TPxxxPM5-66SAS (xxx = 370-400, in increment of 5)

360 cells: TPxxxPMB5-66S (xxx = 370-400, in increment of 5)

360 cells: TPxxxPMB5-66SA (xxx = 370-400, in increment of 5)

360 cells: TPxxxPMB5-66SAF (xxx = 370-400, in increment of 5)

360 cells: TPxxxPMB5-66SAS (xxx = 370-400, in increment of 5)

340 cells: TPxxxPM5-60S (xxx = 325-380, in increment of 5)

340 cells: TPxxxPM5-60SA (xxx = 350-380, in increment of 5)



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340 cells: TPxxxPM5-60SAF (xxx = 350-380, in increment of 5)  
340 cells: TPxxxPM5-60SAS (xxx = 350-380, in increment of 5)  
340 cells: TPxxxPM5-60SB (xxx = 380-415, in increment of 5)  
340 cells: TPxxxPM5-60SBF (xxx = 380-415, in increment of 5)  
340 cells: TPxxxPM5-60SBS (xxx = 380-415, in increment of 5)  
340 cells: TPxxxPMB5-60SB (xxx = 380-420, in increment of 5)  
340 cells: TPxxxPMB5-60SBF (xxx = 380-415, in increment of 5)  
340 cells: TPxxxPMB5-60SBS (xxx = 380-420, in increment of 5)  
340 cells: TPxxxPM5-60SF (xxx = 325-360, in increment of 5)  
340 cells: TPxxxPM5-60SS (xxx = 325-360, in increment of 5)  
340 cells: TPxxxPMB5-60S (xxx = 325-380, in increment of 5)  
340 cells: TPxxxPMB5-60SA (xxx = 350-380, in increment of 5)  
340 cells: TPxxxPMB5-60SAF (xxx = 350-380, in increment of 5)  
340 cells: TPxxxPMB5-60SAS (xxx = 350-380, in increment of 5)  
340 cells: TPxxxPMB5-60SF (xxx = 325-360, in increment of 5)  
340 cells: TPxxxPMB5-60SS (xxx = 325-360, in increment of 5)

Maximum system voltage: 1500V  
Fuse rating: 20A  
Electrical protection class: Class II  
Pollution degree: 1  
Material group: III or II or I, refer to test report for details  
Design load (positive / negative): 2400Pa / 2400Pa or 3600Pa / 1600Pa, refer to test report for details  
Safety factors: 1.5  
Fire safety class: Class C according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018)



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Module types:

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

408 cells: TPxxxPM6-68SC (xxx = 635-655, in increment of 5)

408 cells: TPxxxPMB6-68SC (xxx = 635-660, in increment of 5)

414 cells: TPxxxPM6-69SC (xxx = 645-655, in increment of 5)

414 cells: TPxxxPMB6-69SC (xxx = 645-670, in increment of 5)

390 cells: TPxxxPM6-65SC (xxx = 605-625, in increment of 5)

390 cells: TPxxxPMB6-65SC (xxx = 605-630, in increment of 5)

340 cells: TPxxxPM6-57SC (xxx = 530-545, in increment of 5)

340 cells: TPxxxPMB6-57SC (xxx = 530-550, in increment of 5)

345 cells: TPxxxPM6-58SC (xxx = 535-550, in increment of 5)

345 cells: TPxxxPMB6-58SC (xxx = 535-555, in increment of 5)

325 cells: TPxxxPM6-54SC (xxx = 505-520, in increment of 5)

325 cells: TPxxxPMB6-54SC (xxx = 505-525, in increment of 5)

320 cells: TPxxxPMB7-46SC (xxx = 425-445, in increment of 5)

320 cells: TPxxxPMB7-46SCS (xxx = 425-445, in increment of 5)

320 cells: TPxxxPMB7-46SCF (xxx = 420-440, in increment of 5)

305 cells: TPxxxPMB7-44SC (xxx = 405-425, in increment of 5)

305 cells: TPxxxPMB7-44SCS (xxx = 405-425, in increment of 5)

305 cells: TPxxxPMB7-44SCF (xxx = 400-420, in increment of 5)

Maximum system voltage:	1500V
Fuse rating:	30A or 25A, refer to test report for details
Electrical protection class:	Class II
Pollution degree:	1
Material group:	III or II or I, refer to test report for details
Design load (positive / negative):	3600Pa / 1600Pa, refer to test report for details
Safety factors:	1.5
Fire safety class:	Class C according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018)

Remark:

For detailed product information, please refer to test report.



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## Certificate of conformity with the following European Directives

Registered No.:  
**44 799 22 406749 - 150**

### Low-Voltage Directive 2014/35/EU

Date of application	File reference	Test report No.	Date of issue	Place of issue
2022-10-13	PVP10030/22P	492011972.002	2022-10-31	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:** **TOPCO SOLAR INC.**  
1810 E Sahara Ave Ste 212 #1975,  
Las Vegas, Nevada 89104, USA

**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  
Specialist Manager Consumer Products

TÜV NORD CERT GmbH  
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P.O.Box 10 32 61  
D-45032 Essen  
Fon: +49 (0)201 825-5120  
Fax: +49 (0)201 825-3209  
Email: [prodcert@tuev-nord.de](mailto:prodcert@tuev-nord.de)

## Description of product(s):

Module types:

### **PV Modules with Segmented 6" PERC Mono-crystalline Silicon Solar Cells**

- 432 cells: TPxxxPM5-78S (xxx = 445-480, in increment of 5)
- 432 cells: TPxxxPM5-78SA (xxx = 445-480, in increment of 5)
- 432 cells: TPxxxPM5-78SAF (xxx = 445-480, in increment of 5)
- 432 cells: TPxxxPM5-78SAS (xxx = 445-480, in increment of 5)
- 432 cells: TPxxxPMB5-78S (xxx = 445-480, in increment of 5)
- 432 cells: TPxxxPMB5-78SA (xxx = 445-480, in increment of 5)
- 432 cells: TPxxxPMB5-78SAF (xxx = 445-480, in increment of 5)
- 432 cells: TPxxxPMB5-78SAS (xxx = 445-480, in increment of 5)
- 408 cells: TPxxxPM5-72S (xxx = 395-455, in increment of 5)
- 408 cells: TPxxxPM5-72SA (xxx = 420-455, in increment of 5)
- 408 cells: TPxxxPM5-72SAF (xxx = 420-455, in increment of 5)
- 408 cells: TPxxxPM5-72SAS (xxx = 420-455, in increment of 5)
- 408 cells: TPxxxPM5-72SB (xxx = 460-500, in increment of 5)
- 408 cells: TPxxxPM5-72SBF (xxx = 460-500, in increment of 5)
- 408 cells: TPxxxPM5-72SBS (xxx = 460-500, in increment of 5)
- 408 cells: TPxxxPMB5-72SB (xxx = 460-505, in increment of 5)
- 408 cells: TPxxxPMB5-72SBF (xxx = 460-500, in increment of 5)
- 408 cells: TPxxxPMB5-72SBS (xxx = 460-505, in increment of 5)
- 408 cells: TPxxxPM5-72SF (xxx = 395-435, in increment of 5)
- 408 cells: TPxxxPM5-72SS (xxx = 395-435, in increment of 5)
- 408 cells: TPxxxPMB5-72S (xxx = 395-455, in increment of 5)
- 408 cells: TPxxxPMB5-72SA (xxx = 420-455, in increment of 5)
- 408 cells: TPxxxPMB5-72SAF (xxx = 420-455, in increment of 5)
- 408 cells: TPxxxPMB5-72SAS (xxx = 420-455, in increment of 5)
- 408 cells: TPxxxPMB5-72SF (xxx = 395-435, in increment of 5)
- 408 cells: TPxxxPMB5-72SS (xxx = 395-435, in increment of 5)
- 360 cells: TPxxxPM5-66S (xxx = 370-400, in increment of 5)
- 360 cells: TPxxxPM5-66SA (xxx = 370-400, in increment of 5)
- 360 cells: TPxxxPM5-66SAF (xxx = 370-400, in increment of 5)
- 360 cells: TPxxxPM5-66SAS (xxx = 370-400, in increment of 5)



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360 cells: TPxxxPMB5-66S (xxx = 370-400, in increment of 5)  
360 cells: TPxxxPMB5-66SA (xxx = 370-400, in increment of 5)  
360 cells: TPxxxPMB5-66SAF (xxx = 370-400, in increment of 5)  
360 cells: TPxxxPMB5-66SAS (xxx = 370-400, in increment of 5)  
340 cells: TPxxxPM5-60S (xxx = 325-380, in increment of 5)  
340 cells: TPxxxPM5-60SA (xxx = 350-380, in increment of 5)  
340 cells: TPxxxPM5-60SAF (xxx = 350-380, in increment of 5)  
340 cells: TPxxxPM5-60SAS (xxx = 350-380, in increment of 5)  
340 cells: TPxxxPM5-60SB (xxx = 380-415, in increment of 5)  
340 cells: TPxxxPM5-60SBF (xxx = 380-415, in increment of 5)  
340 cells: TPxxxPM5-60SBS (xxx = 380-415, in increment of 5)  
340 cells: TPxxxPMB5-60SB (xxx = 380-420, in increment of 5)  
340 cells: TPxxxPMB5-60SBF (xxx = 380-415, in increment of 5)  
340 cells: TPxxxPMB5-60SBS (xxx = 380-420, in increment of 5)  
340 cells: TPxxxPM5-60SF (xxx = 325-360, in increment of 5)  
340 cells: TPxxxPM5-60SS (xxx = 325-360, in increment of 5)  
340 cells: TPxxxPMB5-60S (xxx = 325-380, in increment of 5)  
340 cells: TPxxxPMB5-60SA (xxx = 350-380, in increment of 5)  
340 cells: TPxxxPMB5-60SAF (xxx = 350-380, in increment of 5)  
340 cells: TPxxxPMB5-60SAS (xxx = 350-380, in increment of 5)  
340 cells: TPxxxPMB5-60SF (xxx = 325-360, in increment of 5)  
340 cells: TPxxxPMB5-60SS (xxx = 325-360, in increment of 5)

Module types:

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

408 cells: TPxxxPM6-68SC (xxx = 635-655, in increment of 5)  
408 cells: TPxxxPMB6-68SC (xxx = 635-660, in increment of 5)  
414 cells: TPxxxPM6-69SC (xxx = 645-655, in increment of 5)  
414 cells: TPxxxPMB6-69SC (xxx = 645-670, in increment of 5)  
390 cells: TPxxxPM6-65SC (xxx = 605-625, in increment of 5)  
390 cells: TPxxxPMB6-65SC (xxx = 605-630, in increment of 5)  
340 cells: TPxxxPM6-57SC (xxx = 530-545, in increment of 5)  
340 cells: TPxxxPMB6-57SC (xxx = 530-550, in increment of 5)  
345 cells: TPxxxPM6-58SC (xxx = 535-550, in increment of 5)



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345 cells: TPxxxPMB6-58SC (xxx = 535-555, in increment of 5)  
325 cells: TPxxxPM6-54SC (xxx = 505-520, in increment of 5)  
325 cells: TPxxxPMB6-54SC (xxx = 505-525, in increment of 5)  
320 cells: TPxxxPMB7-46SC (xxx = 425-445, in increment of 5)  
320 cells: TPxxxPMB7-46SCS (xxx = 425-445, in increment of 5)  
320 cells: TPxxxPMB7-46SCF (xxx = 420-440, in increment of 5)  
305 cells: TPxxxPMB7-44SC (xxx = 405-425, in increment of 5)  
305 cells: TPxxxPMB7-44SCS (xxx = 405-425, in increment of 5)  
305 cells: TPxxxPMB7-44SCF (xxx = 400-420, in increment of 5)



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Certification Body  
Consumer Products

## Certificate of conformity with the following European Directives

Registered No.:  
**44 799 22 406749 - 032**

### Low-Voltage Directive 2014/35/EU

Date of application	File reference	Test report No.	Date of issue	Place of issue
2022-03-15	PVP03039/22P-01	492011972.001	2022-03-18	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:** **TOPCO SOLAR INC.**  
1810 E Sahara Ave Ste 212 #1975,  
Las Vegas, Nevada 89104, USA

**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  
Specialist Manager Consumer Products

**TÜV NORD CERT GmbH**  
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D-45032 Essen  
Fon: +49 (0)201 825-5120  
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Email: [prodcert@tuev-nord.de](mailto:prodcert@tuev-nord.de)

**Description of product(s):**

Module types:

**PV Modules with Segmented 6" PERC Mono-crystalline Silicon Solar Cells**

- 432 cells: TPxxxPM5-78S (xxx = 445-480, in increment of 5)
- 432 cells: TPxxxPM5-78SA (xxx = 445-480, in increment of 5)
- 432 cells: TPxxxPM5-78SAF (xxx = 445-480, in increment of 5)
- 432 cells: TPxxxPM5-78SAS (xxx = 445-480, in increment of 5)
- 432 cells: TPxxxPMB5-78S (xxx = 445-480, in increment of 5)
- 432 cells: TPxxxPMB5-78SA (xxx = 445-480, in increment of 5)
- 432 cells: TPxxxPMB5-78SAF (xxx = 445-480, in increment of 5)
- 432 cells: TPxxxPMB5-78SAS (xxx = 445-480, in increment of 5)
- 408 cells: TPxxxPM5-72S (xxx = 395-455, in increment of 5)
- 408 cells: TPxxxPMB5-72S (xxx = 395-455, in increment of 5)
- 408 cells: TPxxxPM5-72SA (xxx = 420-455, in increment of 5)
- 408 cells: TPxxxPM5-72SAF (xxx = 420-455, in increment of 5)
- 408 cells: TPxxxPM5-72SAS (xxx = 420-455, in increment of 5)
- 408 cells: TPxxxPMB5-72SA (xxx = 420-455, in increment of 5)
- 408 cells: TPxxxPMB5-72SAF (xxx = 420-455, in increment of 5)
- 408 cells: TPxxxPMB5-72SAS (xxx = 420-455, in increment of 5)
- 408 cells: TPxxxPM5-72SB (xxx = 460-500, in increment of 5)
- 408 cells: TPxxxPM5-72SBF (xxx = 460-500, in increment of 5)
- 408 cells: TPxxxPM5-72SBS (xxx = 460-500, in increment of 5)
- 408 cells: TPxxxPMB5-72SB (xxx = 460-500, in increment of 5)
- 408 cells: TPxxxPMB5-72SBF (xxx = 460-500, in increment of 5)
- 408 cells: TPxxxPMB5-72SBS (xxx = 460-500, in increment of 5)
- 408 cells: TPxxxPM5-72SF (xxx = 395-435, in increment of 5)
- 408 cells: TPxxxPM5-72SS (xxx = 395-435, in increment of 5)
- 408 cells: TPxxxPMB5-72SF (xxx = 395-435, in increment of 5)
- 408 cells: TPxxxPMB5-72SS (xxx = 395-435, in increment of 5)
- 360 cells: TPxxxPM5-66S (xxx = 370-400, in increment of 5)
- 360 cells: TPxxxPM5-66SA (xxx = 370-400, in increment of 5)
- 360 cells: TPxxxPM5-66SAF (xxx = 370-400, in increment of 5)
- 360 cells: TPxxxPM5-66SAS (xxx = 370-400, in increment of 5)



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360 cells: TPxxxPMB5-66S (xxx = 370-400, in increment of 5)  
360 cells: TPxxxPMB5-66SA (xxx = 370-400, in increment of 5)  
360 cells: TPxxxPMB5-66SAF (xxx = 370-400, in increment of 5)  
360 cells: TPxxxPMB5-66SAS (xxx = 370-400, in increment of 5)  
340 cells: TPxxxPM5-60S (xxx = 325-380, in increment of 5)  
340 cells: TPxxxPMB5-60S (xxx = 325-380, in increment of 5)  
340 cells: TPxxxPM5-60SA (xxx = 350-380, in increment of 5)  
340 cells: TPxxxPM5-60SAF (xxx = 350-380, in increment of 5)  
340 cells: TPxxxPM5-60SAS (xxx = 350-380, in increment of 5)  
340 cells: TPxxxPMB5-60SA (xxx = 350-380, in increment of 5)  
340 cells: TPxxxPMB5-60SAF (xxx = 350-380, in increment of 5)  
340 cells: TPxxxPMB5-60SAS (xxx = 350-380, in increment of 5)  
340 cells: TPxxxPM5-60SB (xxx = 380-415, in increment of 5)  
340 cells: TPxxxPM5-60SBF (xxx = 380-415, in increment of 5)  
340 cells: TPxxxPM5-60SBS (xxx = 380-415, in increment of 5)  
340 cells: TPxxxPMB5-60SB (xxx = 380-415, in increment of 5)  
340 cells: TPxxxPMB5-60SBF (xxx = 380-415, in increment of 5)  
340 cells: TPxxxPMB5-60SBS (xxx = 380-415, in increment of 5)  
340 cells: TPxxxPM5-60SF (xxx = 325-360, in increment of 5)  
340 cells: TPxxxPM5-60SS (xxx = 325-360, in increment of 5)  
340 cells: TPxxxPMB5-60SF (xxx = 325-360, in increment of 5)  
340 cells: TPxxxPMB5-60SS (xxx = 325-360, in increment of 5)

Module types:

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

414 cells: TPxxxPM6-69SC (xxx = 645-655, in increment of 5)  
414 cells: TPxxxPMB6-69SC (xxx = 645-670, in increment of 5)  
408 cells: TPxxxPM6-68SC (xxx = 635-655, in increment of 5)  
408 cells: TPxxxPMB6-68SC (xxx = 635-660, in increment of 5)  
390 cells: TPxxxPM6-65SC (xxx = 605-625, in increment of 5)  
390 cells: TPxxxPMB6-65SC (xxx = 605-630, in increment of 5)  
345 cells: TPxxxPM6-58SC (xxx = 535-550, in increment of 5)  
345 cells: TPxxxPMB6-58SC (xxx = 535-555, in increment of 5)  
340 cells: TPxxxPM6-57SC (xxx = 530-545, in increment of 5)



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340 cells: TPxxxPMB6-57SC (xxx = 530-550, in increment of 5)

325 cells: TPxxxPM6-54SC (xxx = 505-520, in increment of 5)

325 cells: TPxxxPMB6-54SC (xxx = 505-525, in increment of 5)

320 cells: TPxxxPMB7-46SC (xxx = 425-445, in increment of 5)

320 cells: TPxxxPMB7-46SCS (xxx = 425-445, in increment of 5)

320 cells: TPxxxPMB7-46SCF (xxx = 420-440, in increment of 5)



**TÜV NORD CERT GmbH**  
Certification Body  
Consumer Products

# CERTIFICATE

**TÜV NORD CERT GmbH**  
herewith declares that

**TOPCO SOLAR INC.**  
1810 E Sahara Ave Ste 212 #1975,  
Las Vegas, Nevada 89104,  
USA

is authorized to provide the product mentioned below with the mark as illustrated:

**Description of product (details see Annex 2):**

**Crystalline Silicon Terrestrial Photovoltaic (PV) modules**



Valid from: 2022-03-18

Valid until: 2023-12-03

Certification program:	P12-VA-01 Rev. 17 09.20
Certification fundamental(s):	IEC / EN 61215-1:2016; IEC / EN 61215-1-1:2016; IEC 61215-2:2016 / EN 61215-2:2017 + AC:2017 + AC:2018; IEC 61730-1:2016 / EN IEC 61730-1:2018 + AC:2018; IEC 61730-2:2016 / EN IEC 61730-2:2018 + AC:2018.
Registered No.:	44 780 22 406749 - 060
Manufacturer:	see Annex 1
Test Report No.:	492011973.001
File No.:	PVP03039/22P-02



**TÜV NORD CERT GmbH**  
Certification Body  
Consumer Products



Essen, 2022-03-18

Please also pay attention to the information stated overleaf.

**Manufacturer:**

Manufacturer: **Tongwei Solar (Hefei) Co., Ltd.**  
No.888, Changning Road, High-tech District,  
Hefei City, Anhui Province, 230088, P.R. China

Factory inspection report no.: 862010358.005

**Remark:**

Factory inspection is mandatory to be performed annually. Please refer to factory inspection report for detailed information.



**TÜV NORD CERT GmbH**  
**Certification Body**  
**Consumer Products**

### Description of product(s):

Module types:	<b>Double Glass PV Modules with Segmented 8" PERC Mono-crystalline Silicon Solar Cells</b> 414 cells: TPxxxPMB6-69SDC (xxx= 635 - 670, in increment of 5) 408 cells: TPxxxPMB6-68SDC (xxx= 625 - 660, in increment of 5) 390 cells: TPxxxPMB6-65SDC (xxx= 600 - 630, in increment of 5) 345 cells: TPxxxPMB6-58SDC (xxx= 530 - 555, in increment of 5) 340 cells: TPxxxPMB6-57SDC (xxx= 520 - 550, in increment of 5) 325 cells: TPxxxPMB6-54SDC (xxx= 500 - 525, in increment of 5) Remark: xxx indicates output power from the front side only.
Maximum system voltage:	1500V
Fuse rating:	30A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I
Design load (positive / negative):	2400Pa / 1600Pa or 3600Pa / 1600Pa, refer to test report for details
Safety factors:	1.5
Fire safety class:	Class C according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018)

### Remark:

For detailed product information, please refer to test report.



## Certificate of conformity with the following European Directives

Registered No.:  
**44 799 22 406749 - 033**

### Low-Voltage Directive 2014/35/EU

Date of application	File reference	Test report No.	Date of issue	Place of issue
2022-03-15	PVP03039/22P-02	492011973.001	2022-03-18	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:** **TOPCO SOLAR INC.**  
1810 E Sahara Ave Ste 212 #1975,  
Las Vegas, Nevada 89104, USA

**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  
Specialist Manager Consumer Products

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Email: [prodcert@tuev-nord.de](mailto:prodcert@tuev-nord.de)

**Description of product(s):**

Module types:

**Double Glass PV Modules with Segmented 8" PERC Mono-crystalline Silicon Solar Cells**

414 cells: TPxxxPMB6-69SDC (xxx= 635 - 670, in increment of 5)

408 cells: TPxxxPMB6-68SDC (xxx= 625 - 660, in increment of 5)

390 cells: TPxxxPMB6-65SDC (xxx= 600 - 630, in increment of 5)

345 cells: TPxxxPMB6-58SDC (xxx= 530 - 555, in increment of 5)

340 cells: TPxxxPMB6-57SDC (xxx= 520 - 550, in increment of 5)

325 cells: TPxxxPMB6-54SDC (xxx= 500 - 525, in increment of 5)

Remark: xxx indicates output power from the front side only.



**TÜV NORD CERT GmbH**  
Certification Body  
Consumer Products