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Certificate

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TÜV NORD CERT GmbH
Type Tested
tuev-nord.de

This certifies that the company:

Win Win Precision Technology Co., Ltd.
4F., NO.180, Sec/2, Gongdao 5th Road., East., Dist.
Hsinchu City 30070
Taiwan, R.O.C.

is authorized to provide the product(s) mentioned below with the mark as illustrated.

Manufacturer and factory(-ies):	See Annex 1
Description of product(s) (details see Annex 2):	**Crystalline Silicon Terrestrial Photovoltaic (PV) Modules**
Certification program:	P12-VA-01 Rev. 17 / 09.20
Certification fundamental(s):	IEC 61215-1:2021 / EN IEC 61215-1:2021, IEC 61215-1-1:2021 / EN IEC 61215-1-1:2021, IEC 61215-2:2021 / EN IEC 61215-2:2021, IEC 61730-1:2023, IEC 61730-2:2023

It is certified by TÜV NORD CERT GmbH that the product(s) described above has(have) been assessed according to the certification program mentioned above and found in compliance with the requirements of above specified certification fundamental(s). This certification is based on evaluation results as documented in test report(s) referenced below and production site(s) audit results as documented in factory inspection report(s) referenced in Annex 1. This certificate is valid in conjunction with these quoted report(s).

Registration no.:	44 780 25 406749 - 087R2	
Report no.:	492013623.003	Valid from: 2025-11-13
File no.:	PVP10010/25P-01	Valid until: 2030-03-30

Essen,2025-11-13

Certification Body - Consumer Products

TÜV NORD CERT GmbH
Am TÜV 1, 45307 Essen, Germany
tuev-nord-cert.de | prodcert@tuev-nord.de

Visit our database to verify the validity of this certificate.

Please also pay attention to the information stated overleaf.

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Annex 2

to certificate registration no. 44 780 25 406749 - 087R2

Description of product(s):

Module types:	**Double glass PV Modules with 182.2mm x 183.75mm or 182.2mm x 182.2mm Half-cut TOPCon Mono-crystalline Silicon Solar Cells:** 144 cells: WST-xxxNGX72-AW (xxx=560-600, in steps of 5) 132 cells: WST-xxxNGX66-AW (xxx=515-550, in steps of 5) 120 cells: WST-xxxNGX60-AW (xxx=475-505, in steps of 5) 108 cells: WST-xxxNGX54-AW (xxx=425-455, in steps of 5) 108 cells: WST-xxxNGX54-BW (xxx=425-455, in steps of 5) Remark: xxx indicates rated output power generated from front side under STC
Maximum system voltage:	1500V
Maximum overcurrent protection rating:	30A
Electrical protection class:	Class II
Pollution degree:	1
98th percentile module operating temperature (T_{98}):	70°C
Design load (positive / negative):	3600Pa / 1600Pa
Safety factors:	1.5
Fire safety class:	Class C according to UL790
Isc bifaciality coefficient (φIsc):	80% ± 10%

Module types:	**Double glass PV Modules with 182.2mm x 210mm Half-cut TOPCon Mono-crystalline Silicon Solar Cells:** 132 cells: WST-xxxNCX66-AW (xxx=585-650, in steps of 5) 108 cells: WST-xxxNCX54-AW (xxx=480-530, in steps of 5) 96 cells: WST-xxxNCX48-AW (xxx=425-470, in steps of 5) 96 cells: WST-xxxNCX48-BW (xxx=425-470, in steps of 5) Remark: xxx indicates rated output power generated from front side under STC
Maximum system voltage:	1500V

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Maximum overcurrent protection rating:	30A
Electrical protection class:	Class II
Pollution degree:	1
98th percentile module operating temperature (T_{98}):	70°C
Design load (positive / negative):	3600Pa / 1600Pa
Safety factors:	1.5
Fire safety class:	Class C according to UL790
Isc bifaciality coefficient (φIsc):	80% ± 10%

Remark:
For detailed product information, please refer to CDF (Constructional Data Form) with the same file no.
Isc bifaciality coefficient (φIsc) = Isc_{rear}/Isc_{front}, as defined in IEC TS 60904-1-2.
The tolerance of Isc bifaciality coefficient (φIsc) is claimed by client.

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