

CERTIFICATE

TÜV NORD CERT GmbH

herewith declares that

Phono Solar Technology Co., Ltd.

No. 1 Xinghuo Rd., Nanjing Hi-tech Zone, Nanjing
China

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: 2022-11-21

Valid until: 2026-07-26

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 - 244
Manufacturer:	see Annex 1
Test Report No.:	492012216.001
File No.:	PVP10105/22P-02



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Essen, 2022-11-21

Please also pay attention to the information stated overleaf.

Description of product(s):

Module types:	Double glass PV Modules with half-cut 8" Bifacial Mono Solar Cells: 132 cells: PSxxxM13GFH-22/WH (xxx = 635-675, in increment of 5) 120 cells: PSxxxM13GFH-20/UH (xxx = 580-610, in increment of 5) 110 cells: PSxxxM13GFH-18/FH (xxx = 525-560, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	30A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I
Design load (positive / negative):	3600Pa / 1600Pa
Safety factors:	1.5
Fire safety class:	Class A or C according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018)

Module types:	Double glass PV Modules with half-cut 6" n-type heterojunction Bifacial Mono Solar Cells: 144 cells: PSxxxM5GFH-24/TSH (xxx = 450-490, in increment of 5) 132 cells: PSxxxM5GFH-22/WSH (xxx = 410-450, in increment of 5) 120 cells: PSxxxM5GFH-20/USH (xxx = 375-405, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	20A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I
Design load (positive / negative):	3600Pa / 1600Pa or 1600Pa / 1600Pa
Safety factors:	1.5
Fire safety class:	Class A according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018)



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Module types:	Double glass PV Modules with half-cut 8" n-type heterojunction Bifacial Mono Solar Cells: 132 cells: PSxxxM13GFH-22/WSH (xxx = 645-700, in increment of 5) 120 cells: PSxxxM13GFH-20/USH (xxx = 585-635, in increment of 5) 110 cells: PSxxxM13GFH-18/FSH (xxx = 540-580, in increment of 5) 100 cells: PSxxxM13GFH-16/ESH (xxx = 490-530, in increment of 5) 80 cells: PSxxxM13GFH-13/DSH (xxx = 390-425, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	35A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I
Design load (positive / negative):	3600Pa / 1600Pa
Safety factors:	1.5
Fire safety class:	Class A or C according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018)

Remark:

For detailed product information, please refer to CDF (Constructional Data Form) in Annex 1 of test report.



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