

CERTIFICATE

TÜV NORD CERT GmbH
herewith declares that

Sunerg Solar Srl
Via D. Donini, 51 - 06012
Loc. Cinquemiglia Città di Castello (PG)
ITALY

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: 2022-08-17

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 21 406749 - 045R1M1
Manufacturer:	see Annex 1
Test Report No.:	492011647.002
File No.:	PVP04098/22P



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Essen, 2022-08-17

Anlage 1 zum Zertifikat Nr.: / *Annex 1 to Certificate No.:* **44 780 21 406749 - 045R1M1**

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Aktenzeichen: / *File reference:* **PVP04098/22P**

2022-08-17

Manufacturer:

Manufacturer: Coded by debtor no. 55390908

Factory inspection report no.: 862010358.005

Remark:

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

A handwritten signature in blue ink, appearing to read "Robin Aliso".

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Description of product(s):

Module types:

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

432 cells: XMCH78xxx+ (xxx=445-480, in increment of 5)
432 cells: XMCH78xxx+H (xxx=445-480, in increment of 5)
432 cells: XMCH78xxxB+H (xxx=445-480, in increment of 5)
432 cells: XMCH78xxxBW+H (xxx=445-480, in increment of 5)
432 cells: XMCH78xxx+BF (xxx=445-480, in increment of 5)
432 cells: XMCH78xxx+HBF (xxx=445-480, in increment of 5)
432 cells: XMCH78xxxB+HBF (xxx=445-480, in increment of 5)
432 cells: XMCH78xxxBW+HBF (xxx=445-480, in increment of 5)
408 cells: XMCH72xxx+ (xxx=395-455, in increment of 5)
408 cells: XMCH72xxx+H (xxx=420-455, in increment of 5)
408 cells: XMCH72xxxB+H (xxx=420-455, in increment of 5)
408 cells: XMCH72xxxBW+H (xxx=420-455, in increment of 5)
408 cells: XMCH144xxx+H (xxx=460-500, in increment of 5)
408 cells: XMCH144xxxB+H (xxx=460-500, in increment of 5)
408 cells: XMCH144xxxBW+H (xxx=460-500, in increment of 5)
408 cells: XMCH144xxx+HBF (xxx=460-505, in increment of 5)
408 cells: XMCH144xxxB+HBF (xxx=460-500, in increment of 5)
408 cells: XMCH144xxxBW+HBF (xxx=460-505, in increment of 5)
408 cells: XMCH72xxxB+ (xxx=395-435, in increment of 5)
408 cells: XMCH72xxxBW+ (xxx=395-435, in increment of 5)
408 cells: XMCH72xxx+BF (xxx=395-455, in increment of 5)
408 cells: XMCH72xxx+HBF (xxx=420-455, in increment of 5)
408 cells: XMCH72xxxB+HBF (xxx=420-455, in increment of 5)
408 cells: XMCH72xxxBW+HBF (xxx=420-455, in increment of 5)
408 cells: XMCH72xxxB+BF (xxx=395-435, in increment of 5)
408 cells: XMCH72xxxBW+BF (xxx=395-435, in increment of 5)
360 cells: XMCH66xxx+ (xxx=370-400, in increment of 5)
360 cells: XMCH66xxx+H (xxx=370-400, in increment of 5)
360 cells: XMCH66xxxB+H (xxx=370-400, in increment of 5)
360 cells: XMCH66xxxBW+H (xxx=370-400, in increment of 5)
360 cells: XMCH66xxx+BF (xxx=370-400, in increment of 5)
360 cells: XMCH66xxx+HBF (xxx=370-400, in increment of 5)
360 cells: XMCH66xxxB+HBF (xxx=370-400, in increment of 5)
360 cells: XMCH66xxxBW+HBF (xxx=370-400, in increment of 5)
340 cells: XMCH60xxx+ (xxx=325-380, in increment of 5)
340 cells: XMCH60xxx+H (xxx=350-380, in increment of 5)



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340 cells: XMCH60xxxB+H (xxx=350-380, in increment of 5)
340 cells: XMCH60xxxBW+H (xxx=350-380, in increment of 5)
340 cells: XMCH120xxx+H (xxx=380-415, in increment of 5)
340 cells: XMCH120xxxB+H (xxx=380-415, in increment of 5)
340 cells: XMCH120xxxBW+H (xxx=380-415, in increment of 5)
340 cells: XMCH120xxx+HBF (xxx=380-420, in increment of 5)
340 cells: XMCH120xxxB+HBF (xxx=380-415, in increment of 5)
340 cells: XMCH120xxxBW+HBF (xxx=380-420, in increment of 5)
340 cells: XMCH60xxxB+ (xxx=325-360, in increment of 5)
340 cells: XMCH60xxxBW+ (xxx=325-360, in increment of 5)
340 cells: XMCH60xxx+BF (xxx=325-380, in increment of 5)
340 cells: XMCH60xxx+HBF (xxx=350-380, in increment of 5)
340 cells: XMCH60xxxB+HBF (xxx=350-380, in increment of 5)
340 cells: XMCH60xxxBW+HBF (xxx=350-380, in increment of 5)
340 cells: XMCH60xxxB+BF (xxx=325-360, in increment of 5)
340 cells: XMCH60xxxBW+BF (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: XMCH136xxxQ+H (xxx=635-655, in increment of 5)

408 cells: XMCH136xxxQ+HBF (xxx=635-660, in increment of 5)

414 cells: XMCH138xxxQ+H (xxx=645-655, in increment of 5)

414 cells: XMCH138xxxQ+HBF (xxx=645-670, in increment of 5)

390 cells: XMCH130xxxQ+H (xxx=605-625, in increment of 5)

390 cells: XMCH130xxxQ+HBF (xxx=605-630, in increment of 5)

340 cells: XMCH114xxxQ+H (xxx=530-545, in increment of 5)

340 cells: XMCH114xxxQ+HBF (xxx=530-550, in increment of 5)

345 cells: XMCH116xxxQ+H (xxx=535-550, in increment of 5)

345 cells: XMCH116xxxQ+HBF (xxx=535-555, in increment of 5)

325 cells: XMCH108xxxQ+H (xxx=505-520, in increment of 5)

325 cells: XMCH108xxxQ+HBF (xxx=505-525, in increment of 5)

320 cells: XMCH92xxxQ+HBF (xxx=425-445, in increment of 5)

320 cells: XMCH92xxxQBW+HBF (xxx=425-445, in increment of 5)

320 cells: XMCH92xxxQB+HBF (xxx=425-440, in increment of 5)

305 cells: XMCH88xxxQ+HBF (xxx=405-425, in increment of 5)

305 cells: XMCH88xxxQBW+HBF (xxx=405-425, in increment of 5)

305 cells: XMCH88xxxQB+HBF (xxx=400-420, in increment of 5)

Maximum system voltage:

1500V

Fuse rating:

30A or 25A, refer to CDF 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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