

# Factory Inspection Certificate

**Registered No.: PVP12003/22P**

**Name and address of the customer**                      **Sunerg Solar Srl**  
Via D.Donini, 51 Loc. Cinquemiglia, 06012 Città di Castello (PG) ITALY

**Description of the product**                      **Crystalline Silicon Terrestrial Photovoltaic (PV) Modules**

**Manufacturing plant**                      Coded by debtor no. 55390908  
No.888, Changning Road, High-tech District,  
Hefei City, Anhui Province, 230088, P.R. China

**Production processes carried out at the inspected plant**                      Stringing                      Lamination                      Lay-up                      Electrical Tests  
                                                                 

**Factory inspection report no.:**                      862010358.006  
Please refer to factory inspection report for detailed information.

**Date of inspection:**                      **2022-09-27**

**In accordance to**                      P12-VA-01-A5 Rev. 11/12.19 "surveillance of production sites and certified products"

The manufacturing plant is under a periodic factory surveillance programme in the frame of TÜV NORD type approval certification according to the standard(s) in the annex.



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Please also pay attention to the information stated overleaf.

## Description of product(s):

**Module type(s): 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)  
340 cells: XMCH60xxxB+H (xxx=350-380, in increment of 5)  
340 cells: XMCH60xxxBW+H (xxx=350-380, in increment of 5)



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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)

**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)

**Certificate(s):** 44 780 21 406749 - 045R1M1

**Valid until:** 2027-10-19

**Standard(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.



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**Serial no. regulations of the product:**

Documented by file: Q/TW 1042.1-2020, version V5.3, effect on: 2022-01-07

Regulation: ABCDEFGYYMRRXXXXXX

Example: BS5DMPM20806000030 or CS5DMPM20806000030

| Code   | Description of Code            | Example   |
|--------|--------------------------------|---|
| A      | Manufacturing plant identifier | A = M1 Plant<br>B = M2 Plant<br>C = M3 Plant Phase I and Phase II<br>D = M3 Plant Phase III |
| B      | Module type identifier         | S = Shingled Single Glass Module  |
| C      | Busbar numbers identifier      | 5 = Cell with 5 Busbars   |
| D      | Cell shape identifier          | D = Chamfering Cell   |
| E      | Crystalline type identifier    | M = Mono-crystalline Silicon Solar Cell   |
| F      | Cell type identifier           | P = PERC  |
| G      | Workorder identifier           | M = Batch Workorder   |
| YY     | Year                           | 20 = 2020   |
| M      | Month                          | 8 = August  |
| RR     | Workorder running number       | 06 = The Sixth Workorder  |
| XXXXXX | Running number                 | 000030 = The 30 <sup>th</sup> Module  |



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