



# IEC 61701:2011

## Salt mist corrosion testing of photovoltaic (PV) modules

### Confirmation of test results

**VDE Renewables File Ref.:** 10004/2022-40173

**Applicant:** Changzhou EGing Photovoltaic Technology Co., Ltd.  
No. 18 Jinwu Road, 213213 Jintan City, China

**Product:** Crystalline silicon Photovoltaic (PV)-Modules

**Type:**

- |                        |                        |                         |                         |
|------------------------|------------------------|-------------------------|-------------------------|
| A) EG-XXXM72-C,        | B) EG-XXXM60-C,        | C) EG-XXXP72-C,         | D) EG-XXXP60-C,         |
| E) EG-XXXM72-CV,       | F) EG-XXXM60-CV,       | G) EG-XXXP72-CV,        | H) EG-XXXP60-CV,        |
| I) EG-XXXM72-C-DG,     | J) EG-XXXM60-C-DG,     | K) EG-XXXM72-HC,        | L) EG-XXXM60-HC,        |
| M) EG-XXXP72-HC,       | N) EG-XXXP60-HC,       | O) EG-XXXM72-HC/BF-DG,  | P) EG-XXXM60-HC/BF-DG,  |
| Q) EG-XXXM72-12BB-CV,  | R) EG-XXXM60-12BB-CV,  | S) EG-XXXP72-12BB-CV,   | T) EG-XXXP60-12BB-CV,   |
| U) EG-XXXM72-HCV,      | V) EG-XXXM60-HCV,      | W) EG-XXXP72-HCV        | X) EG-XXXP60-HCV,       |
| Y) EG-XXXM72-12BB-C,   | Z) EG-XXXM60-12BB-C,   | AA) EG-XXXP72-12BB-C,   | AB) EG-XXXP60-12BB-C,   |
| AC) EG-XXXM72-DV,      | AD) EG-XXXM60-DV,      | AE) EG-XXXM72-HDV       | AF) EG-XXXM60-HDV       |
| AG) EG-XXXM72-D        | AH) EG-XXXM60-D        | AI) EG-XXXM72-HD        | AJ) EG-XXXM60-HD        |
| AK) EG-XXXM72-HD/BF-DG | AL) EG-XXXM60-HD/BF-DG | AM) EG-XXXM72-D/BF-DG   | AN) EG-XXXM60-D/BF-DG   |
| AO) EG-XXXM72-C/BF-DG  | AP) EG-XXXM60-C/BF-DG  | AQ) EG-XXXM72-HE/BF-DG  | AR) EG-XXXM60-HE/BF-DG  |
| AS) EG-XXXM72-HEV      | AT) EG-XXXM60-HEV      | AU) EG-XXXM72-HE        | AV) EG-XXXM60-HE        |
| AW) EG-XXXM84-HEV      | AX) EG-XXXM78-HEV      | AY) EG-XXXM84-HE        | AZ) EG-XXXM78-HE        |
| BA) EG-XXXM84-HE/BF-DG | BB) EG-XXXM78-HE/BF-DG | BC) EG-XXXM78-HDV       | BD) EG-XXXM66-HDV       |
| BE) EG-XXXM78-HD       | BF) EG-XXXM66-HD       | BG) EG-XXXM78-HD/BF-DG  | BH) EG-XXXM66-HD/BF-DG  |
| BI) EG-XXXM72-HLV      | BJ) EG-XXXM60-HLV      | BK) EG-XXXM72-HL        | BL) EG-XXXM60-HL        |
| BM) EG-XXXM72-HL/BF-DG | BN) EG-XXXM60-HL/BF-DG | BO) EG-XXXM54-HLV       | BP) EG-XXXM54-HL        |
| BQ) EG-XXXM54-HL/BF-DG | BR) EG-XXXM60-HUV      | BS) EG-XXXM54-HUV       | BT) EG-XXXM60-HU        |
| BU) EG-XXXM54-HU       | BV) EG-XXXM60-HU/BF-DG | BW) EG-XXXM54-HU/BF-DG  | BX) EG-XXXM66-HUV       |
| BY) EG-XXXM66-HU/BF-DG | BZ) EG-XXXM66-HU       | CA) EG-XXXNT66-HU/BF-DG | CB) EG-XXXNT60-HU/BF-DG |

XXX in the type replaces the power in Watt and can be any number between:

320 - 400 for A),E)	265 - 330 for B),F)	310 - 350 for C),G),S),AA)	255 - 290 for D),H),T),AB)
340 - 370 for I)	270 - 315 for J)	345 - 390 for K),U)	290 - 325 for L),V)
320 - 365 for M),W)	270 - 300 for N),X)	350 - 390 for O)	285 - 325 for P)
330 - 385 for Q),Y)	270 - 320 for R),	275 - 320 for Z)	360 - 395 for AC),AG)
300 - 325 for AD),AH),AP)	365 - 415 for AE),AI)	305 - 345 for AF),AJ)	350 - 415 for AK)
295 - 345 for AL)	355 - 400 for AW)	300 - 330 for AN)	360 - 390 for AO)
425 - 460 for AQ),AS),AU)	350 - 380 for AR),AT),AV)	500 - 535 for AW),AY),BA)	465 - 495 for AX),AZ),BB)
420 - 455 for BC),BE),BG)	355 - 380 for BD),BF),BF)	510 - 550 for BI),BK),BM)	425 - 465 for BJ),BL),BN)
385 - 425 for BO),BP),BQ)	585 - 620 for BR),BT)	530 - 555 for BS),BU)	585 - 605 for BV)
530 - 545 for BW)	640 - 670 for BX),BZ)	640 - 675 for BY)	660 - 695 for CA)
600 - 630 for CB)			

**Manufacturer:** Changzhou EGing Photovoltaic Technology Co., Ltd.

**Standard:** IEC 61701:2011, Salt mist corrosion test

**Test conditions**

Severity level: 6  
 Testing time: 1344 h  
 Chamber temperature: 40°C  
 Relative Humidity: 93 %  
 Mist pH level: 7

**Pass criteria**

Power degradation: < 5%  
 Dry Insulation: > 40 MΩm<sup>2</sup>  
 Wet insulation: > 40 MΩm<sup>2</sup>  
 Ground continuity: < 0.1Ω  
 Bypass diode functionality: Shall be functional after test



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## Salt mist corrosion testing of photovoltaic (PV) modules

### Confirmation of test results

#### Summary of test results:

**Maximum power degradation:** allowed max. 5 %  
measured max. 0.91 %

The measured degradation is below the allowed degradation.

**Dry insulation resistance:** required min. 15.5 M $\Omega$   
measured >1000 M $\Omega$

The measured dry insulation resistance is above the limit.

**Wet insulation resistance:** required min. 15.5 M $\Omega$   
measured >1000 M $\Omega$

The measured wet insulation resistance is above the limit.

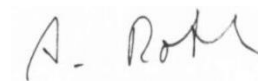
**Ground continuity test:** required max. 0.1 $\Omega$   
measured max. 0.004 $\Omega$

**Bypass diode functionality test:** Still functional after test

The complete test results and the relevant bill of materials are given in Test Report No.: TRPVM-2022-40173-2.

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