



IEC 61701:2020

Salt mist corrosion testing of photovoltaic (PV) modules

Confirmation of test results

VDE Renewables File Ref.: 10004/2022-40766

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,
CD) EG-XXXNT60-HL/BF-DG, CE) EG-XXXNT54-HL/BF-DG, CF) EG-XXXNT78-HLV,
CG) EG-XXXNT72-HLV, CH) EG-XXXNT60-HLV, CI) EG-XXXNT54-HLV

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 - 555 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) | 460 - 475 for CD) | 415 - 425 for CE) | 605 - 225 for CF) |
| 560 - 575 for CG) | 465 - 480 for CH) | 420 - 430 for CI) | |

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



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Pass criteria

Power degradation: < 5%
Dry Insulation: > 40 MΩm²
Wet insulation: > 40 MΩm²
Ground continuity: < 0.1Ω
Bypass diode functionality: Shall be functional after test

Summary of test results:

Maximum power degradation: allowed max. 5 %
measured max. 1.02 %

he measured degradation is below the max. allowed degradation.

Dry insulation resistance: required min. 14.3 MΩ
measured >1000 MΩ

The measured dry insulation resistance is above the min. required dry insulation resistance.

Wet insulation resistance: required min. 14.3 MΩ
measured >1000 MΩ

The measured wet insulation resistance is above the min. required wet insulation resistance.


Ground continuity test: required max. 0.1Ω
measured max. 0.004Ω

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-2022-40776-3 and TRPVM-2022-40776-4.

VDE Renewables GmbH


Dean Wen


Arnd Roth

63755 Alzenau, 2022-12-14