

INTERNATIONAL ELECTROTECHNICAL COMMISSION
COMMISSION ÉLECTROTECHNIQUE INTERNATIONALE

IEC 61730-2
Edition 3.0 2016-03

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**CORRIGENDUM 1- PHOTOVOLTAIC (PV)
MODULE SAFETY QUALIFICATION –**

Part 2: Requirements for testing

**ÊTRE CORRIGÉ 1- QUALIFICATION POUR LA
SÛRETÉ DE FONCTIONNEMENT DES
MODULES PHOTOVOLTAÏQUES (PV) –**

Partie 2: Exigences pour les essais

C O R R I G E N D U M 1

Corrections to the French version appear after the English text.

Les corrections à la version française sont données après le texte anglais.

Throughout the document replace:

"IEC 61730-1:2022" (29 occurrences)

With:

"IEC 61730-1:2023"

Foreword

In item b) of the list, replace:

"Figure 4"

With:

"Figure 6".

Add the following new list items l) to o):

- "l) MST 37: Materials creep test revised.
- m) MST 56: Dry heat conditioning test revised.
- n) MST 53: Damp heat test (1 000 h) revised.
- o) Robustness of terminations test added in Sequence D for junction boxes qualified with a cemented joint."

Figure 1

Replace the existing figure title with the following new figure title:

Figure 1 – Test sequences

10.5.2

In item b) of the list, replace:

"IEC 62788-2-1:2022"

with

"IEC 62788-2-1:2023"

10.20.2

Replace the first dashed list item:

"– Emissivity ϵ : 0,95 for polymeric materials"

With:

"– Emissivity ϵ :

- 0,95 for polymeric materials
- 0,90 for glass surfaces"

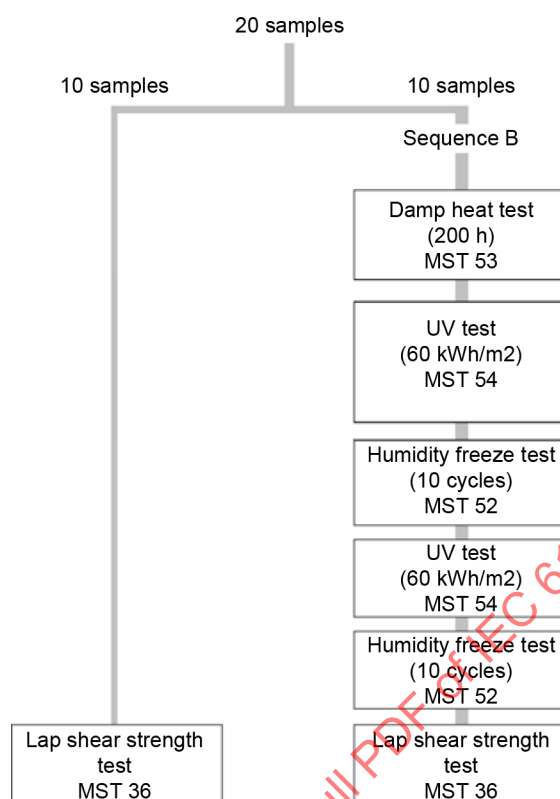
10.25.4

Replace the first paragraph of 10.25.4 with the following:

"A total of 20 bonded test coupons shall be prepared as described in 10.25.2. 10 bonded test coupons are used to determine the pre-weathering breaking force (M1) and 10 bonded test coupons are used to determine the post-weathering breaking force (M2). The test flow is given in Figure 15. In the first UV-test one side of the sample is exposed to the UV and in the second UV test the sample is reversed to expose the opposite side of the sample."

Figure 15

Replace the existing Figure 15 with the following new Figure 15:



IEC

Figure 15 – Lap-shear test flow

10.30

Replace the existing second paragraph with the following:

"A 5 N load is to be attached to the junction box according to the weight attachment procedure in IEC 61215-2:2021, 4.11.3 during the damp heat test in Sequence D only."

10.34.3.5

In the first paragraph, replace the first list item with the following:

- In addition to the Robustness of termination test MST 42 in Figure 1 sequence C for all junction boxes in case of cemented joints the MST 42 shall be performed again in Figure 1 sequence D between Damp heat test MST 53 and Mechanical load test MST 34. For the insulation test MST 16 and the Wet leakage current test MST 17 after Robustness of termination test MST 42 in Figure 1 sequences C and D shall be performed with an increased test voltage."

Annex C

After the fourth paragraph (including the note), replace the existing text with the following:

"Manufacturing process:

- Samples chosen for the tests shall comply with the requirements of Clause 6.

- Similar production equipment shall be used.
- Tabbing and stringing process shall be equal.
- The same quality assurance tests shall be conducted.

Bill of material:

- Identical bill of materials.

Insulation coordination

- Same spacing (or less) between cells and between any live part and the edge of the module.
- Same interconnection within the electrical circuitry, e.g. the same number of cells per sub-string.
- Same requirements for insulation in thin layers."

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Corrections à la version française:

Remplacer

/ "IEC 61730-1:2022" (29 occurrences)

Par:

"IEC 61730-1:2023"

Avant-propos

Dans l'élément de référencé b) de la liste, remplacer:

"Figure 4"

Par:

"Figure 6".

Ajoutez les nouveaux éléments de référencé l) à o):

- "l) MST 37: Essai de fluage des matériaux révisé.
- m) MST 56: Essai de conditionnement à chaleur sèche révisé.
- n) MST 53: Essai de chaleur humide (1 000 h) révisé.
- o) Essai de robustesse des sorties ajouté à la séquence D pour les boîtes de jonction qualifiées avec un joint collé."

Figure 1

Remplacer le titre de la figure existant par le suivant:

Figure 1 – Séquences d'essai

10.5.2

Dans l'élément de référence b) de la liste, remplacer:

"IEC 62788-2-1:2022"

Par:

"IEC 62788-2-1:2023"

10.20.2

Remplacez le premier élément de la liste:

"– émissivité ϵ : 0,95 pour les matériaux polymères;"