

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Salt mist corrosion testing of photovoltaic (PV) modules

Essai de corrosion au brouillard salin des modules photovoltaïques (PV)

Without
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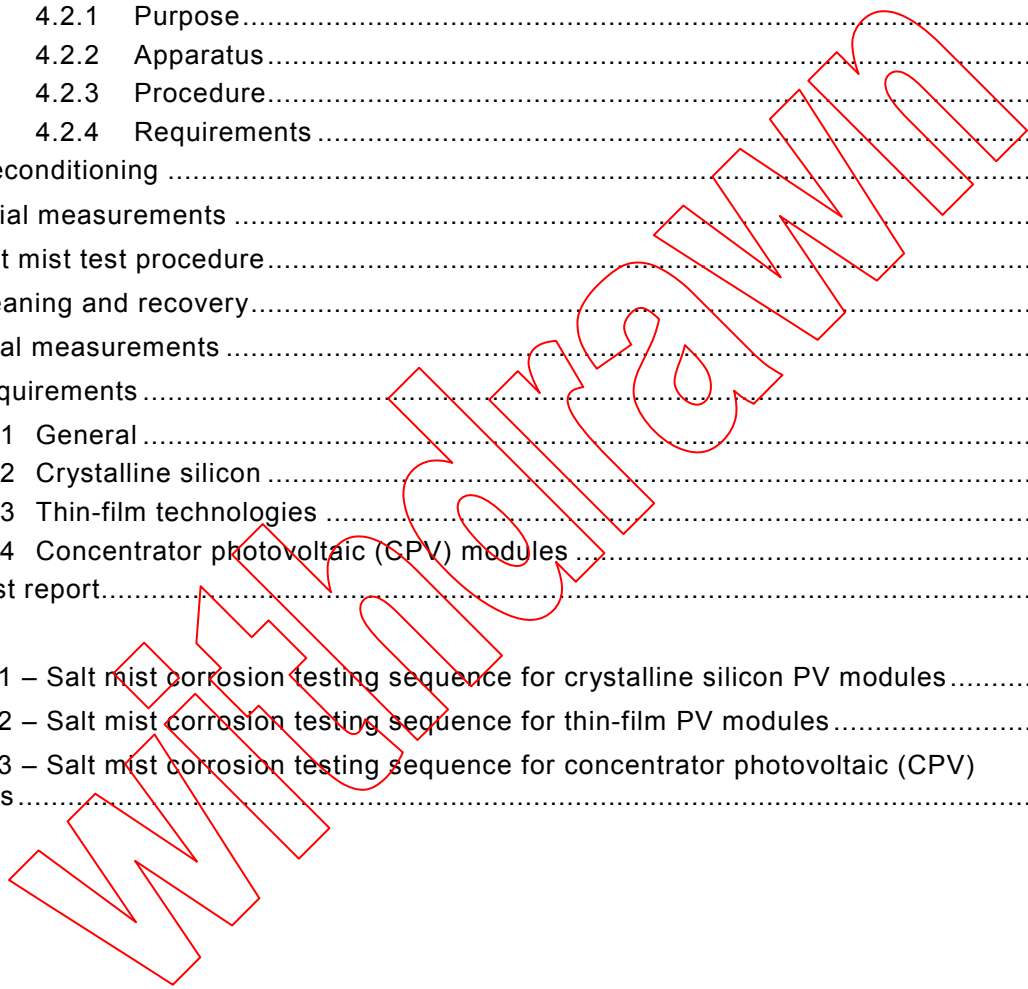
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ICS 27.160

ISBN 978-2-88912-840-2

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

SALT MIST CORROSION TESTING OF PHOTOVOLTAIC (PV) MODULES

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International Standard IEC 61701 has been prepared by IEC technical committee 82: Solar photovoltaic energy systems.

This second edition cancels and replaces the first edition issued in 1995. This edition constitutes a technical revision.

The main technical changes with respect to the previous edition are as follows:

The scope has been updated to better reflect the applicability of the Standard.

Salt mist test is based on IEC 60068-2-52 rather than IEC 60068-2-11 as in edition 1 since the former Standard is much more widely used in the electronic component field. According to this change the new edition 2 includes a cycling testing sequence that combines in each cycle a salt fog exposure followed by humidity storage under controlled temperature and relative humidity conditions. This testing sequence is more suitable to reflect the corrosion processes that happen in PV modules subjected to permanent or temporary corrosive atmospheres (NaCl). In edition 1 only a salt fog exposure was considered.

Additional tests have also been included to verify the effect of the salt mist test not only in the PV module output but also in some of its components.

Different testing sequences are considered depending on the PV module technology involved: crystalline silicon, thin-film and concentrator photovoltaic (CPV) modules.

A test report clause has also been included.

The text of this standard is based on the following documents:

FDIS	Report on voting
82/667/FDIS	82/681/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

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