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IEC 62716: 2013

DRAFT TANZANIA STANDARD

(Draft for comments only)

Photovoltaic (PV) modules - Ammonia corrosion testing

Draft for Stakeholders Comments Only

TANZANIA BUREAU OF STANDARDS

1 National Foreword

This draft Tanzania Standard is being prepared by the Renewable Energy Technical Committee, under the supervision of the Electrotechnical Divisional Standards Committee (EDC)

This draft Tanzania Standard is an adoption of the International Standard IEC **62716:2013**, *Photovoltaic (PV) modules - Ammonia corrosion testing*, which has been prepared by the International Electrotechnical Commission (IEC).

2 Terminology and conventions

Some terminologies and certain conventions are not identical with those used in Tanzania Standards; Attention is drawn especially to the following:

- 1) The comma has been used as a decimal marker for metric dimensions. In Tanzania Standards, it is current practice to use “full point” on the baseline as the decimal marker.
- 2) Where the words “International Standard(s)” appear, referring to this standard they should read “Tanzania Standard(s)”.

3 Scope

Photovoltaic (PV) modules are electrical devices intended for continuous outdoor exposure during their lifetime. Highly corrosive wet atmospheres, such as in the environment of stables of agricultural companies, could eventually degrade some of the PV module components (corrosion of metallic parts, deterioration of the properties of some non-metallic materials – such as protective coatings and plastics – by assimilation of ammonia) causing permanent damages that could impair their functioning and safe operation.

This standard describes test sequences useful to determine the resistance of PV modules to ammonia (NH₃). All tests included in the sequences, except the bypass diode functionality test, are fully described in other international Electrotechnical standards. They are combined in this standard to provide means to evaluate possible faults caused in PV modules when operating under wet atmospheres having high concentration of dissolved ammonia (NH₃). This standard applies to flat plate PV modules.

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