ADOPTION PROPOSAL FORM

**CPR183/F15**

**KENYA BUREAU OF STANDARDS**

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| **Document Type:** | **Adoption proposal** | |
| **Dates:** | Circulation date | Closing date |
| 2022-04-22 | 2021-05-22 |
| **TC Secretary** | **This form shall be filled, signed and returned to Kenya Bureau of Standards for the attention of Alex S Mboa (amboa@kebs.org)** | |

The Kenya Bureau of Standards intends to adopt the International Standards as detailed here below.

We are therefore seeking views from potential users in respect of the same. The Standards are available at the Kenya Bureau of Standards Information Resource Centre. Please tick and fill your preference of the listed option in the attached table against each of the standards.

Where the option is that the adoption is not acceptable, you MUST give a reason(s) and recommendation(s).

**NOTE:** Absence of any reply or comments shall be deemed to be an acceptance of the proposal for adoption and **shall constitute an approval vote**.

1. **Number**: IEC 62790:2020

**Title**: Junction boxes for photovoltaic modules - Safety requirements and tests

**Scope**: Describes safety requirements, constructional requirements and tests for junction boxes up to 1 500 V DC for use on photovoltaic modules in accordance with class II of IEC 61140:2016

<https://webstore.iec.ch/preview/info_iec62790%7Bed2.0%7Db.pdf>

1. **Number**: IEC 62852:2014+AMD1:2020 CSV

**Title**: Connectors for DC-application in photovoltaic systems - Safety requirements and tests

**Scope**: Applies to connectors for use in the d.c. circuits of photovoltaic systems according to class II of IEC 61140:2001 with rated voltages up to 1 500 V d.c. and rated currents up to 125 A per contact.

https://webstore.iec.ch/preview/info\_iec62852%7Bed1.1%7Db.pdf

1. **Number**: IEC 60904-1:2020 to replace IEC 60904-1:2006

**Title**: Photovoltaic devices - Part 1: Measurement of photovoltaic current-voltage characteristics

**Scope**: Describes procedures for the measurement of current-voltage characteristics (I-V curves) of photovoltaic (PV) devices in natural or simulated sunlight.

https://webstore.iec.ch/preview/info\_iec60904-1%7Bed3.0%7Db.pdf

1. **Number**: IEC 60904-8:2014

**Title**: Photovoltaic devices - Part 8: Measurement of spectral responsivity of a photovoltaic (PV) device

**Scope**: Specifies the requirements for the measurement of the spectral responsivity of both linear and non-linear photovoltaic devices.

<https://webstore.iec.ch/preview/info_iec60904-8%7Bed3.0%7Db.pdf>

1. **Number**: IEC 61215-1:2021 to replace KS IEC 61215:2005 and KS IEC 61646:2008

**Title**: Terrestrial photovoltaic (PV) modules - Design qualification and type approval - Part 1: Test requirements.

**Scope**: Lays down requirements for the design qualification of terrestrial photovoltaic modules suitable for long-term operation in open-air climates.

https://webstore.iec.ch/preview/info\_iec61215-1%7Bed2.0.RLV%7Den.pdf

1. **Number**: IEC 61215-1-1:2021

**Title**: Terrestrial photovoltaic (PV) modules - Design qualification and type approval - Part 1-1: Special requirements for testing of crystalline silicon photovoltaic (PV) modules.

**Scope**: Lays down special requirements for testing of crystalline silicon photovoltaic (PV) modules suitable for long-term operation in open-air climates.

<https://webstore.iec.ch/preview/info_iec61215-1-1%7Bed2.0.RLV%7Den.pdf>

1. **Number**: IEC 61215-1-2:2021 +AMD1:2022 CSV

**Title**: Terrestrial photovoltaic (PV) modules - Design qualification and type approval - Part 1-2: Special requirements for testing of thin-film Cadmium Telluride (CdTe) based photovoltaic (PV) modules.

**Scope**: Lays down special requirements for testing of thin-film Cadmium Telluride (CdTe) based photovoltaic (PV) modules suitable for long-term operation in open-air climates.

<https://webstore.iec.ch/preview/info_iec61215-1-2%7Bed2.1%7Db.pdf>

1. **Number**: IEC 61215-1-3:2021 +AMD1:2022 CSV

**Title**: Terrestrial photovoltaic (PV) modules - Design qualification and type approval - Part 1-3: Special requirements for testing of thin-film amorphous silicon based photovoltaic (PV) modules.

**Scope**: Lays down special requirements for testing thin-film amorphous silicon based photovoltaic (PV) modules. suitable for long-term operation in open-air climates.

https://webstore.iec.ch/preview/info\_iec61215-1-3%7Bed2.1%7Db.pdf

1. **Number**: IEC 61215-1-4:2021 +AMD1:2022 CSV

**Title**: Terrestrial photovoltaic (PV) modules - Design qualification and type approval - Part 1-4: Special requirements for testing of thin-film Cu(In,Ga)(S,Se)2 based photovoltaic (PV) modules

**Scope**: Lays down special requirements for testing thin-film Cu(In,Ga)(S,Se)2 based photovoltaic (PV) modules. suitable for long-term operation in open-air climates.

https://webstore.iec.ch/preview/info\_iec61215-1-4%7Bed2.1%7Db.pdf

1. **Number**: IEC 61215-2:2021

**Title**: Terrestrial photovoltaic (PV) modules - Design qualification and type approval - Part 2: Test procedures

**Scope**: This document lays down requirements for the design qualification of terrestrial photovoltaic modules suitable for long-term operation in open-air climates. It details the test procedures.

https://webstore.iec.ch/preview/info\_iec61215-2%7Bed2.0%7Db.pdf

1. **Number**: IEC 62109-3:2020

**Title**: Safety of power converters for use in photovoltaic power systems - Part 3: Particular requirements for electronic devices in combination with photovoltaic elements

**Scope**: Covers the particular safety requirements for electronic elements that are mechanically and/or electrically incorporated with photovoltaic (PV) modules or systems.

https://webstore.iec.ch/preview/info\_iec62109-3%7Bed1.0%7Db.pdf

1. **Number**: IEC 62116:2014 to replace KS IEC 62116:2008

**Title**: Utility-interconnected photovoltaic inverters - Test procedure of islanding prevention measures

**Scope**: Provides a test procedure to evaluate the performance of islanding prevention measures used with utility-interconnected PV systems.

<https://webstore.iec.ch/preview/info_iec62116%7Bed2.0%7Db.pdf>

**ADOPTION PROPOSAL**

| **S/No.** | **Standard Number** | **Adoption acceptable as presented** | **Adoption proposal not acceptable** | **Reason why adoption proposal not acceptable** | **Proposed Change/recommendation(s)** |
| --- | --- | --- | --- | --- | --- |
|  | IEC 62790:2020 |  |  |  |  |
|  | IEC62852:2014+AMD1:2020 CSV |  |  |  |  |
|  | IEC 60904-1:2020 |  |  |  |  |
|  | IEC 60904-8:2014 |  |  |  |  |
|  | IEC 61215-1:2021 |  |  |  |  |
|  | IEC 61215-1-1:2021 |  |  |  |  |
|  | IEC 61215-1-2:2021 +AMD1:2022 CSV |  |  |  |  |
|  | IEC 61215-1-3:2021 +AMD1:2022 CSV |  |  |  |  |
|  | IEC 61215-1-4:2021 +AMD1:2022 CSV |  |  |  |  |
|  | IEC 61215-2:2021 |  |  |  |  |
|  | IEC 62109-3:2020 |  |  |  |  |
|  | IEC 62116:2014 |  |  |  |  |