APPENDIX DD
ADOPTION PROPOSAL FORM

**CPR183/F12**

**KENYA BUREAU OF STANDARDS**

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| **Document Type:** | **Adoption proposal** |
| **Dates:** | Circulation date | Closing date |
| 2024/05/06 | 2024/06/06 |
| **TC Secretary** | **This form shall be filled, signed and returned to Kenya Bureau of Standards for the attention of Robert Njoroge** **njoroger@kebs.org** |

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

1. **Number**: IEC 62196-1:2022

**Title**: Plugs, socket-outlets, vehicle connectors and vehicle inlets - Conductive charging of electric vehicles - Part 1: General requirements

 **Scope**: IEC 62196-1:2022 is applicable to EV plugs, EV socket-outlets, vehicle connectors, vehicle inlets, herein referred to as "accessories", and to cable assemblies for electric vehicles (EV) intended for use in conductive charging systems which incorporate control means, with a rated operating voltage not exceeding:
690 V AC 50 Hz to 60 Hz, at a rated current not exceeding 250 A;
1 500 V DC at a rated current not exceeding 800 A.
This fourth edition cancels and replaces the third edition published in 2014.

 <https://webstore.iec.ch/publication/59922#additionalinfo>

1. **Number**: IEC 62196-2:2022

 **Title**: Plugs, socket-outlets, vehicle connectors and vehicle inlets - Conductive charging of electric vehicles - Part 2: Dimensional compatibility requirements for AC pin and contact-tube accessories

 **Scope**: IEC 62196-2:2022 applies to EV plugs, EV socket-outlets, vehicle connectors and vehicle inlets with pins and contact-tubes of standardized configurations, herein referred to as accessories. These accessories have a nominal rated operating voltage not exceeding 480 V AC, 50 Hz to 60 Hz, and a rated current not exceeding 63 A three phase or 70 A single phase, for use in conductive charging of electric vehicles.
This document covers the basic interface accessories for vehicle supply as specified in IEC 62196-1.

 <https://webstore.iec.ch/publication/64364>

1. **Number**: IEC 62196-3:2022

 **Title**: Plugs, socket-outlets, vehicle connectors and vehicle inlets - Conductive charging of electric vehicles - Part 3: Dimensional compatibility requirements for DC and AC/DC pin and contact-tube vehicle couplers

 **Scope**: IEC 62196-3:2022 is applicable to vehicle couplers with pins and contact tubes of standardized configuration, herein also referred to as "accessories", intended for use in electric vehicle conductive charging systems which incorporate control means, with rated operating voltage and current in accordance with IEC 62196-1:2022.
This second edition cancels and replaces the first edition published in 2014. This edition constitutes a technical revision.
This edition includes the following significant technical changes with respect to the previous edition:
interchangeability requirements have been removed from the title of Part 3;
increased ratings for all configurations;
reference to new tests in IEC 62196-1 (Clauses 34, 35, 36 and 37).

 <https://webstore.iec.ch/publication/59923>

1. **Number**: IEC TS 62196-4:2022

**Title**: Plugs, socket-outlets, vehicle connectors and vehicle inlets - Conductive charging of electric vehicles - Part 4: Dimensional compatibility and interchangeability requirements for DC pin and contact-tube accessories for Class II or Class III applications

 **Scope**: IEC TS 62196-4:2022(E) is applicable to plugs, socket-outlets, vehicle connectors and vehicle inlets, herein referred to as “accessories”, of standardized configuration for DC power supply of electric road vehicles, where the protection against electric shocks relies on double or reinforced insulation between all AC and DC inputs and outputs of the EV supply equipment, intended for use in conductive power supply systems which can incorporate control means, with a maximum operating voltage up to 120 V DC, not exceeding 60 A.

 <https://webstore.iec.ch/publication/26769>

1. **Number**: IEC 62196-6:2022

**Title**: Plugs, socket-outlets, vehicle connectors and vehicle inlets - Conductive charging of electric vehicles - Part 6: Dimensional compatibility requirements for DC pin and contact-tube vehicle couplers intended to be used for DC EV supply equipment where protection relies on electrical separation

 **Scope**: IEC 62196-6:2022 is applicable to vehicle connectors, vehicle inlets and cable assemblies for electric vehicle (EV), intended for use in conductive charging systems which incorporate control means, with a rated operating voltage up to 120 V DC and rated current up to 100 A.
These accessories are intended to be used for a DC interface of the conductive charging system according to IEC 61851-25:2020.

 <https://webstore.iec.ch/publication/62552>

1. **Number**: IEC 61851-1:2017

**Title**: Electric vehicle conductive charging system - Part 1: General requirements

 **Scope**: IEC 61851-1:2017 applies to EV supply equipment for charging electric road vehicles, with a rated supply voltage up to 1 000 V AC or up to 1 500 V DC and a rated output voltage up to 1 000 V AC or up to 1 500 V DC. Electric road vehicles (EV) cover all road vehicles, including plug-in hybrid road vehicles (PHEV), that derive all or part of their energy from on-board rechargeable energy storage systems (RESS).

<https://webstore.iec.ch/publication/33644>

1. **Number**: IEC 61851-21-1:2017

**Title**: Electric vehicle conductive charging system - Part 21-1 Electric vehicle on-board charger EMC requirements for conductive connection to AC/DC supply

 **Scope**: IEC 61851-21-1:2017, together with IEC 61851-1:2010, gives requirements for conductive connection of an electric vehicle (EV) to an AC or DC supply. It applies only to on-board charging units either tested on the complete vehicle or tested on the charging system component level (ESA - electronic sub assembly).
This document covers the electromagnetic compatibility (EMC) requirements for electrically propelled vehicles in any charging mode while connected to the mains supply. This first edition, together with IEC 61851-21-2, cancels and replaces IEC 61851-21:2001. (RESS).

<https://webstore.iec.ch/publication/32045>

1. **Number**: IEC 61851-21-2:2018

**Title**: Electric vehicle conductive charging system - Part 21-2: Electric vehicle requirements for conductive connection to an AC/DC supply - EMC requirements for off board electric vehicle charging systems

 **Scope**: IEC 61851-21-2:2018 defines the EMC requirements for any off-board components or equipment of such systems used to supply or charge electric vehicles with electric power by conductive power transfer (CPT), with a rated input voltage, according to IEC 60038:2009, up to 1 000 V AC or 1 500 V DC and an output voltage up to 1 000 V AC or 1 500 V DC.
This document covers off-board charging equipment for mode 1, mode 2, mode 3 and mode 4 charging as defined in IEC 61851-1:2017.

<https://webstore.iec.ch/publication/31282>

1. **Number**: IEC 61851-23:2023

**Title**: Electric vehicle conductive charging system - Part 23: DC electric vehicle supply equipment

 **Scope**: IEC 61851-23:2023 applies to the EV supply equipment to provide energy transfer between the supply network and electric vehicles (EVs), with a rated maximum voltage at side A of up to 1 000 V AC or up to 1 500 V DC and a rated maximum voltage at side B up to 1 500 V DC.
This document specifies the EV supply equipment of system A, system B and system C as defined in Annex AA, Annex BB and Annex CC. Other systems are under consideration.

<https://webstore.iec.ch/publication/32973>

1. **Number**: IEC 61851-24:2023

**Title**: Electric vehicle conductive charging system - Part 24: Digital communication between a DC EV supply equipment and an electric vehicle for control of DC charging

 **Scope**: IEC 61851-24:2023, together with IEC 61851-23, applies to digital communication between a DC EV supply equipment and an electric road vehicle (EV) for control of conductive DC power transfer, with a rated supply voltage up to 1 000 V AC or up to 1 500 V DC and a rated output voltage up to 1 500 V DC.
This document also applies to digital communication between the DC EV charging/discharging station and the EV for system A, as specified in Annex A.
The EV charging mode is mode 4, according to IEC 61851-23.

<https://webstore.iec.ch/publication/32582>

We are therefore seeking views from potential users in respect of the same. The Standard is available at the Kenya Bureau of Standards Information Centre. Please tick and fill your preference of the listed option. (If the spaces provided are not enough, please attach a separate sheet of paper).

 Adoption acceptable as presented

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 Adoption proposal not acceptable because of the reason(s) below

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 Our Recommendations are as follows

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Name and Signature (of respondent): ................................................

Position (of respondent): .....................................

On behalf of ......................................................................................... (Name of organization)

Date .........................................................................

**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**.

**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 62196-1:2022 |  |  |  |  |
|  | IEC 62196-2:2022 |  |  |  |  |
|  | IEC 62196-3:2022 |  |  |  |  |
|  | IEC 62196-4:2022 |  |  |  |  |
|  | IEC 62196-6:2022 |  |  |  |  |
|  | IEC 61851-1:2017 |  |  |  |  |
|  | IEC 61851-21-1:2017 |  |  |  |  |
|  | IEC 61851-21-2:2018 |  |  |  |  |
|  | IEC 61851-23:2023 |  |  |  |  |
|  | IEC 61851-24:2023 |  |  |  |  |