



January - December, 2023

Doc. No.: GSA-FM-SO4-A

## GHANA STANDARDS AUTHORITY

## NOTICE OF DECLARATION OF SPECIFICATIONS AS STANDARD SPECIFICATIONS

In exercise of the powers conferred on the Ghana Standards Authority by Section 29 (1) (a) of the Ghana Standards Authority Act, 2022 (Act 1078), notice is hereby given that the specifications appearing hereunder have been declared National Standards:

**ELECTRO-TECHNICAL & AUTOMOBILE STANDARDS**

NO.	STD REF NO	TITLE
1.	GS IEC 61851-1:2023	Electric vehicle conductive charging system - Part 1: General requirements
2.	GS IEC 61851-21-1:2023	Electric vehicle conductive charging system - Part 21-1 Electric vehicle on-board charger EMC requirements for conductive connection to AC/DC supply
3.	GS IEC 61851-21-2:2023	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
4.	GS IEC 61851-23:2023	Electric vehicle conductive charging system - Part 23: DC electric vehicle charging station
5.	GS IEC 61851-24:2023	Electric vehicle conductive charging system - Part 24: Digital communication between a d.c. EV charging station and an electric vehicle for control of d.c. charging
6.	GS IEC 61851-25:2023	Electric vehicle conductive charging system - Part 25: DC EV supply equipment where protection relies on electrical separation
7.	GS IEC 61980-1:2023	Electric vehicle wireless power transfer (WPT) systems - Part 1: General requirements
8.	GS IEC TS 61980-2:2023	Electric vehicle wireless power transfer (WPT) systems - Part 2: Specific requirements for communication between electric road vehicle (EV) and infrastructure
9.	GS IEC 61980-3:2023	Electric vehicle wireless power transfer (WPT) systems - Part 3: Specific requirements for magnetic field wireless power transfer systems
10.	GS IEC 63119-1:2023	Information exchange for electric vehicle charging roaming service - Part 1: General
11.	GS IEC 62893-1:2023+AMD1:2023 CSV	Charging cables for electric vehicles for rated voltages up to and including 0,6/1 kV - Part 1: General requirements
12.	GS IEC 62893-2:2023	Charging cables for electric vehicles for rated voltages up to and including 0,6/1 kV - Part 2: Test methods
13.	GS IEC 62893-3:2023	Charging cables for electric vehicles for rated voltages up to and including 0,6/1 kV - Part 3: Cables for AC charging according to modes 1, 2 and 3 of IEC 61851-1 of rated voltages up to and including 450/750 V
14.	GS IEC 62893-4-1:2023	Charging cables for electric vehicles of rated voltages up to and including 0,6/1 kV - Part 4-1: Cables for DC charging according to mode 4 of IEC 61851-1 - DC charging without use of a thermal management system
15.	GS IEC TS 62893-4-2:2023	Charging cables for electric vehicles of rated voltages up to and including 0,6/1 kV - Part 4-2: Cables for DC charging according to mode 4 of IEC 61851-1 - Cables intended to be used with a thermal management system
16.	GS IEC 62196-1:2023	Plugs, socket-outlets, vehicle connectors and vehicle inlets - Conductive charging of electric vehicles - Part 1: General requirements
17.	GS IEC 62196-2:2023	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
18.	GS IEC 62196-3:2023	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
19.	GS IEC TS 62196-3-1:2023	Plugs, socket-outlets, vehicle connectors and vehicle inlets - Conductive charging of electric vehicles - Part 3-1: Vehicle connector, vehicle inlet and cable assembly for DC charging intended to be used with a thermal management system
20.	GS IEC 62196-6:2023	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

21.	GS IEC 62752:2023+AMD1:2023 CSV	In-cable control and protection device for mode 2 charging of electric road vehicles (IC-CPD)
22.	GS IEC 60364-7-722:2023	Low-voltage electrical installations - Part 7-722: Requirements for special installations or locations - Supplies for electric vehicles
23.	GS IEC 61140:2023	Protection against electric shock - Common aspects for installation and equipment
24.	GS ISO 17409:2023	Electrically propelled road vehicles — Conductive power transfer — Safety requirements (ISO 17409:2020, IDT)
25.	GS ISO 15118-1:2023	Road vehicles — Vehicle to grid communication interface — Part 1: General information and use-case definition (ISO 15118-1:2023, IDT)
26.	GS ISO 15118-2:2023	Road vehicles — Vehicle-to-Grid Communication Interface — Part 2: Network and application protocol requirements (ISO 15118-2:2014, IDT)
27.	GS ISO 15118-3:2023	Road vehicles — Vehicle to grid communication interface — Part 3: Physical and data link layer requirements (ISO 15118-3:2015, IDT)
28.	GS ISO 15118-4:2023	Road vehicles — Vehicle to grid communication interface — Part 4: Network and application protocol conformance test (ISO 15118-4:2018, IDT)
29.	GS ISO 15118-5:2023	Road vehicles — Vehicle to grid communication interface — Part 5: Physical layer and data link layer conformance test (ISO 15118-5:2018, IDT)
30.	GS ISO 15118-8:2023	Road vehicles — Vehicle to grid communication interface — Part 8: Physical layer and data link layer requirements for wireless communication (ISO 15118-8:2020, IDT)
31.	GS ISO 15118-9:2023	Road vehicles — Vehicle to grid communication interface — Part 9: Physical and data link layer conformance test for wireless communication (ISO 15118-9:2022, IDT)
32.	GS ISO 15118-20:2023	Road vehicles — Vehicle to grid communication interface — Part 20: 2nd generation network layer and application layer requirements (ISO 15118-20:2022, IDT)
33.	GS IEC 60529:2023+AMD1:2023+AMD2:2023 CSV	Electrical Engineering - Protection Enclosures of Electrical Equipment - Degrees of Protection provided by Enclosures (IP Code)
34.	GS IEC 62040-1:2023+AMD1:2023+AMD2:2023 CSV	Uninterruptible power systems (UPS) - Part 1: Safety requirements
35.	GS IEC 62040-2:2023	Uninterruptible power systems (UPS) - Part 2: Electromagnetic compatibility (EMC) requirements
36.	GS IEC 62040-3:2023	Uninterruptible power systems (UPS) - Part 3: Method of specifying the performance and test requirements
37.	GS IEC 62040-4:2023	Uninterruptible power systems (UPS) - Part 4: Environmental aspects - Requirements and reporting
38.	GS IEC 62040-5-3:2023	Uninterruptible power systems (UPS) - Part 5-3: DC output UPS - Performance and test requirements
39.	GS IEEE 2030.1.1-2023	Standard for Technical Specifications of a DC Quick and Bidirectional Charger for Use with Electric Vehicles
40.	GS IEC 61008-1:2023+AMD1:2023+AMD2:2023 CSV	Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCBs) - Part 1: General rules
41.	GS IEC 63119-2:2023	Information exchange for electric vehicle charging roaming service - Part 2: Use cases
42.	GS IEC 63110-1:2023	Protocol for management of electric vehicles charging and discharging infrastructures - Part 1: Basic definitions, use cases and architectures
43.	GS ISO 19363:2023	Electrically propelled road vehicles — Magnetic field wireless power transfer — Safety and interoperability requirements (ISO 19363:2020, IDT)
44.	GS IEC 62955:2023	Residual direct current detecting device (RDC-DD) to be used for mode 3 charging of electric vehicles
45.	GS IEC TS 62840-1:2023	Electric vehicle battery swap system - Part 1: General and guidance
46.	GS IEC 62840-2:2023	Electric vehicle battery swap system - Part 2: Safety requirements
47.	GS IEC PAS 62840-3:2023	Electric vehicle battery swap system - Part 3: Particular safety and interoperability requirements for battery swap systems operating with removable RESS/battery systems