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GB/T 39752-2021

Safety Requirements and Test Specifications of Electric Vehicle Conductive Supply Equipment

电动汽车供电设备安全要求及试验规范

(English Translation)

Issued on: March 9, 2021

Issued by: State Administration for Market Regulation;
Standardization Administration of the PRC

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1 Foreword

GB/T 39752-2021 was issued by State Administration for Market Regulation; Standardization Administration of the PRC on 9 March 2021.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. The issuing body of this document shall not be held responsible for identifying any or all such patent rights.

This standard is proposed by and is under the jurisdiction of China Electricity Council.

2 Scope Preview

This standard specifies the safety requirements, test guidelines and test methods for electric vehicle conductive supply equipment (hereinafter referred to as "conductive supply equipment"). This standard is applicable to all types of conductive supply equipment with a rated output voltage of 1,000V AC or 1,500V DC and below, including those with charging mode 2, charging mode 3 and charging mode 4, as well as the conductive supply equipment which are not used for public purposes and used under special conditions (such as explosion-proof and liquid-cooled ones, and those used in plateaus at altitude above 2,000m). It shall be applied in combination with the requirements of relevant standards. The independent electrical accessories and auxiliary materials (such as connecting devices, cables and insulating materials, etc.) of conductive supply equipment shall comply with the specific product standards in conjunction with this standard. This standard involves serious equipment damage and serious personal harm caused by electric shock hazard, energy

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hazard, mechanical hazard, high temperature hazard, fire spread hazard, sound pressure hazard, out-of-control hazard, etc., when the conductive supply equipment conforms to the correct use regulations but may have operational errors. This standard does not involve the following: --Safety requirements related to transport packaging, improper installation and application;

GB/T 39752-2021 carries no ICS number and no Chinese Standard Classification code.

This catalogue holds 75,626 other GB/T standards.

Of the 47,415 GB/T standards that do carry an ICS number, 3,437 (7%) fall under ICS 77, in the field of metallurgy.

3 Normative references

GB/T 1002 - Single phase plugs and socket-outlets for household and similar purposes - Types, basic parameters and dimensions

GB/T 2099.1 - Plugs and socket-outlets for household and similar purposes - Part 1: General requirements

GB/T 2423.55 - Environmental testing for electric and electronic products - Part 2: Test methods - Test Eh: Hammer tests

GB/T 4776-2017 - Electrical safety terminology

GB 4793.1-2007 - Safety requirements for electrical equipment for measurement, control and laboratory use - Part 1: General requirements

GB 4943.1-2011 - Information technology equipment - Safety - Part 1: General requirements

GB/T 5169.11 - Fire hazard testing for electric and electronic products - Part 11: Glowing/hot-wire based test methods - Glow-wire flammability test method for end-products (GWEPT)

GB/T 5169.21 - Fire hazard testing for electric and electronic products - Part 21: Abnormal heat - Ball pressure test method

GB/T 12113 - Methods of measurement of touch current and protective conductor current

GB/T 16842 - Protection of persons and equipment by enclosures - Probe for verification

GB/T 16935.1-2008 - Insulation coordination for equipment within low-voltage systems - Part 1: Principles, requirements and tests

GB/T 18487.1-2015 - Electric vehicle conductive charging system - Part 1: General requirements

GB/T 20234.1-2015 - Connection set for conductive charging of electric vehicles - Part 1:

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General requirements

GB/T 29317-2012 - Terminology of electric vehicle charging/battery swap infrastructure

4 About this standard

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English translation: about 15 pages (approximate)

5 Classification and status

Chinese Standard Classification (CCS): T 35

Prefix GB/T: recommended standard.

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