ICS 43.020 T 09



NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

中华人民共和国国家标准

GB/T 18384.1~18384.3-2001

Electric Vehicles—Safety Specifications 电动汽车 安全要求

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Foreword

This Standard is equivalent to ISO/DIS 6469.3: 2000 *Electric vehicles-Safety specification Part 3: Protection of persons against electric hazards.* Difference between this Standard and ISO/DIS 6469.3: 2000:

- For scope of application in this Standard, "Electric passenger vehicle whose max working voltage of onboard circuit is less than 1000 V (AC) or 1500 V (DC) and to electric commercial vehicle whose max design total mass is not more than 3500 kg, and the max design mass of electric vehicle is more than 3500 kg" in ISO/DIS 6469, changed the 1000 V (AC) as 660 V (AC) and changed the 1500 V (DC) as 1000V (DC) according to Standard Voltage GB 156.
- 2. The reference standards changed as National Standard, added GB 156 on the basis of ISO/DIS 6469 3
- 3. Definitions in ISO/DIS 6469.3-2000, see previous two parts of ISO/DIS 6469, not repeat in this Standard, direct refers to the definitions of GB/T 18384.1 and GB/T 18384.2.
- 4. Deleted the Clause 4 in ISO/DIS 6469.2.

Annex A and Annex B of this Standard is normative annex.

This Standard was proposed by State Bureau of Machine Building Industry.

This Standard was under the jurisdiction of National Technical Committee on Road Vehicles of Standardization Administration of China.

Draft units of this Standard are China Automotive Technology and Research Center and Tsinghua University.

Main drafters of this Standard are Zhao Jingwei, Sunhui, Sun Lin, Chen Quanshi, Lun Jingguang.

Electric Vehicles-Safety Specification

Part 3: Protection of Persons against Electric Hazards

1 Scope

This standard specifies the specification for protection of persons against electric hazards, when electric vehicle is not connected with external power supply.

This standard applies to electric passenger vehicle whose max working voltage of onboard circuit is less than 660 V (AC) or 1000 V (DC) (according to GB 156), and to electric commercial vehicle whose max design total mass is not more than 3500 kg, and the max design mass of electric vehicle is more than 3500 kg that can refer to this standard.

This Standard is not applicable to guide assembly, maintenance and repair of electric vehicle.

2 Normative References

The articles contained in the following documents have become this standard when they are quoted herein. For the dated documents so quoted, all the modifications (excluding corrections) or revisions made thereafter shall not be applicable to this Standard. For the undated documents so quoted, the latest editions shall be applicable to this Standard.

GB 156-1993 Standard voltages

GB 2893-2001 Safety colours

GB 2894-1996 Safety signs

GB 4208-1993 Degrees of protection provided by enclosure (IP code)

GB/T 5465.2-1996 Graphical symbols for use on electrical equipment

GB/T 18384.1-2001 Electric vehicles-Safety specification-Part 1:On-board energy storage

GB/T 18384.2-2001 Electric vehicles-Safety specification-Part 2: Functional means and protection against failures

GB/T 18384.3-2001 Electric vehicles-Safety specification-Part 3: Protection of persons against electric hazards

3 Terms and Definitions

For the purpose of this Standard, the following terms and definitions of GB/T 18384.1 and GB/T 18384.2 shall apply.

3.1 Electrical circuit

Collection of connected live parts through which electrical current is intended to flow

3.2 Nominal voltage

Value of the voltage used to name an electrical system and to which its characteristics are referred

3.3 Working voltage

Highest value of a.c. voltage (rms) or d.c. which may occur in an electrical system under any normal operating conditions, transients being disregarded.

3.4 Direct contact



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