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**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

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**Electric Vehicles—Safety Specifications**  
**电动汽车 安全要求**

**Issued on July 12, 2001**

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**Issued by the General Administration of Quality Supervision, Inspection and  
Quarantine of the People's Republic of China**

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## Foreword

This Standard is equivalent to ISO/DIS 6469.2: 2000 *Electric vehicles-Safety specification Part 2: Functional safety means and protection against failures*. Difference between this Standard and ISO/DIS 6469.2: 2000:

1. 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 6469.2.
3. Definitions in ISO/DIS 6469.2-2000, see ISO/DIS 6469.1-2000, not repeat in this Standard, direct refers to the definitions of GB/T 18384.1.
4. Deleted the Clause 4 in ISO/DIS 6469.2.

Annex A and Annex B of this Standard is suggestive 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 1: On-board Energy Storage

### 1 Scope

This standard specifies the specification for functional safety means and protection against failures for special dangers of electric vehicle propulsion system.

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 14023-2000 Vehicles, motorboats and spark-ignited engine-driven devices--Radio disturbance characteristics -- Limits and methods of measurement

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

GB/T 18387-2001 Performance levels and methods of measurement of magnetic and electric field strength from electric vehicles, broadband, 9 kHz to 30 MHz

ISO 11451-2: 1995 Road vehicles -- Electrical disturbances by narrowband radiated electromagnetic energy -- Vehicle test methods -- Part 2: Off-vehicle radiation source

### 3 Terms and Definitions

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

#### 3.1 Drive direction control

Device physically actuated by the driver to select the driving direction of the road vehicle (forward or backward)

#### 3.2 Auxiliary electrical circuit

Electrical circuit supplying vehicle functions other than for propulsion, such as lamps, windscreen- (windshield-) wiper motors and radios

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