

Translated English of Chinese Standard GB/T19836-2005

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NATIONAL STANDARD
OF THE PEOPLE'S REPUBLIC OF CHINA
GB/T 19836-2005

Instrumentation for Electric Vehicles

电动汽车用仪表

(IEC 784: 1984, Instrumentation for electric road vehicles, NEQ)

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Foreword

This Standard is corresponding to IEC 784:1984 Instrumentation for electric road vehicles. This Standard is not equivalent to IEC 784, the main changes are as follows:

- Change the Clause 2 “Objective” in IEC to be “Normative References”. And add 4 references;
- Change the “Controller-on” indication in 3.2.7 to be parking indicator (there is problem in original text), and consistent with 4.4 in GB/T 18384.2;
- Specify the requirements of anti-disturbance performance in 4.2. Quote the national standards GB/T 17619 and GB 18655 that have been implemented in automobile industry;
- Specify the requirements of vibration performance in 4.3. Quote the industry standard QC/T 413 that have been implemented in automobile industry;
- Add the motor rotation-speed indicator;
- The specific value of dielectric strength in 4.4 is listed in Table 1 according to IEC 786, for ease of operation;
- Modify the 3.2 and 3.2.4 etc. on the basis of further comprehension;
- Change the indicator of leakage current in original text to be indicator of insulation resistance/creepage distance; the contents correspond to 6.1 and 6.2 of GB/T 18384.1 AND 6.2.2 of GB/T 18384.3;
- Delete the *concentration indicator of inflammable gas or waste gas, low-voltage monitoring device of auxiliary battery, and regenerative braking indicator*.

This Standard was proposed by National Development and Reform Commission.

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

The responsible drafting organization of this Standard: China Automotive Technology and Research Center.

Main drafters of this Standard: Xu Xiuxiang, and Zhao Jingwei.

Instrumentation for Electric Vehicles

1. Scope

This Standard specifies the category and general requirements of instrumentation for electric vehicles.

This Standard is applicable to instrumentation for electric vehicles.

2. Normative References

The articles contained in the following documents have become part of 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 4208 Degrees of protection provided by enclosure (IP code) (GB 4208-1993, eqv IEC 529: 1989)

GB/T 17619 Limits and methods of testing for immunity of electrical / electronic sub-assemblies in vehicles to electromagnetic radiation

GB 18655 Limits and methods of measurement of radio disturbance characteristics for the protection of receivers used on board vehicles

QC/T 413-2002 Basic Technical Requirements for Automotive Electric Equipment

3 Category of Instrumentation

3.1 Indicating instrument devices

3.1.1 Indicating instrument devices of traction battery

It is connected with traction battery and provides the relevant information of the state of the battery power's status to the vehicle driver.

3.1.1.1 Indication of charging state

It indicates the remaining capacity of the traction battery. An analog or digital display may be used. The indication may be permanent or on demand whenever driver needs it. The

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