

ICS 43.020

KT 04



**NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC
OF CHINA**

中华人民共和国国家标准

GB/T 19596-2004

Terminology of electric vehicles

电动汽车术语

Issued on November 02, 2004

Implemented on June 01, 2005

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

Standardization Administration of the People's Republic of China

Contents

Foreword	1
1 Scope	4
2 Normative References	4
3 Terms and definitions	4
Englishe Index	32

Foreword

The terms in the standard include four parts:

- Finished automobile;
- Electrical machine controller;
- Battery;
- Charger.

3.1 The finished automobile corresponding to the ISO 8713: 2002 *Power-driven Road Vehicle-Vocabulary* (English edition), including the concerned content with finished automobile in ISO 8713: 2002, in which the item, definition are basically adopted the expression method in ISO 8713, and at the same time add plenty of related items based on ISO 8713: 2002; the added items and definitions are mainly referred to the relevant standard of JIS D0112 and SAE, IEC, combining with the actual use condition in our country. The structure of this part is divided into three parts in accordance with the species of electric vehicles, structure and parts, and performance.

The main differences of ISO 8713: 2002 and finished automobile:

- 1) Change the power-driven road vehicle to electric vehicles according to customs of our country;
- 2) The compile format is different; therefore, the order of the terms is totally different from ISO 8713;
- 3) This part only includes the related content of finished automobile in ISO 8713, in which some common terms will no longer be listed. For example, excluding the common terms namely maximum design total mass, open mouth parts, etc. in ISO 8713;
- 4) Regarding the definition of some terms, refer to the related standard of SAE and IEC, or the domestic actual situation which has done proper modification;
- 5) According to the idiomatic usage of some terms of electric vehicles and development of new technique, it adds the terms and its corresponding definition properly.

The finished automobile only stipulates the term and definition to the characteristics of electric vehicles, but the division of vehicle type shall be in accordance with the term and definition of GB/T 3730.1 *Term and Definition of Car and Trailer Types*(e.g. electric

passenger car, electric bus, etc.), and there is no definition in this part.

3.2 The parts of electrical machine and controller are established with reference to the JIS D0113 *Electromotor and Control Device of Electric vehicles Terms* of Japan. JIS D0113 is applied to the electromotor and controller of full electric vehicle. In consideration of the current development situation of electric vehicles and hybrid power electric vehicles, it adds the related terms of electric generator, of which the standard is applied to the electrical machine and controller, adding several common terms like peak torque, etc., and canceling the terms such as IGBT inverter. The expression of term definition shall refer to JIS D0113, and mostly redefined after the modification, and partially are the same in the related standard of GB/T 2900.25 *Electrician Term Electric Rotating Machinery*, GB/T 2900.26 *Electrician Term Control Motor* and GB/T 18488.1-2001 *Electrical Machine of Electro mobile and Its Controller Technique Condition* and other related standards. The structure of this part adapts the format of JIS D0113.

3.3 Accumulator part mainly referred to the ISO 8713: 2002 *Road Electric Vehicle-Vocabulary* (English edition), SAE J1715: 1994 *Electric Vehicles terms* and JIS D0114: 2000 *Electric Vehicles terms (storage battery)* (primary JEVS Z807: 1998) concern the content of Electric Vehicles battery in the three standards. The definition reference of the term adopted the expression method of ISO 8713 and SAE J1715, and the term which was not included in ISO 8713 and SAE J1715, referred to the definition of JIS D0114, and definition of partially terms adopting the expression method of GB/T 2900.11-1988. The structure adopts the format of JIS D0114, including the term and definition of three parts, which are types of electric vehicles battery, structure and parts, specification and performance.

3.4 The charger part mainly referred to the JIS D0115:2000 *Electric Vehicles Terms (Charger)* (English edition), and definition of partially terms referred to the relevant IEC standard. Structure in this part adopted the format of JIS D0115, mainly including the term and definition of four parts: summarize of electric vehicles charger, charge mode, structure and parts, specification and performance.

This standard is proposed by China Association of Automobile Manufacturers.

The Standard is under the jurisdiction of the National Technical Committee of Auto

Standardization.

The drafting committee of this standard: Chinese Automotive Technology & Research Centre.

The main draftsman of finished automobile in standard 3.1: Zhao Jingwei;

The main draftsman of electrical machine and controller in standard 3.2: Xu Xiuxiang;

The main draftsman of battery and charger in standard 3.3, 3.4: Liu Xianghai.

Terms of electric vehicles

1 Scope

The standard stipulated the term and definition related with electric vehicles.

The standard is applied to finished automobile of electric vehicles, electrical machine and controller, battery and charger.

Notes: The related term about fuel cell vehicle is not included in the standard at present.

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 4208 Degrees of protection provided by enclosure (IP code) (GB 4208-1993, eqv IEC 60529: 1989)

3 Terms and definitions

3.1 Finished automobile

3.1.1 Kinds of the electric vehicles

3.1.1.1

Electric vehicle

EV

The following vehicles are all named as electric vehicles.

3.1.1.1.1

Battery electric vehicle

BEV

The vehicle driven by electric motor: The driven electric energy of electric motor comes from the vehicle-mounted charging battery or other energy reserve

3.1.1.1.2

Hybrid electric vehicle

HEV

完整版本请在线下单

或咨询：

TEL： 400-678-1309

QQ： 19315219

Email：info@lancarver.com

<http://www.lancarver.com>

对公账户：

单位名称：北京文心雕语翻译有限公司

开户行：中国工商银行北京清河镇支行

账 号：0200 1486 0900 0006 131

支付宝账户：info@lancarver.com

注：付款成功后，请预留电邮，完整版本将在一个工作日内通过电子 PDF 或 Word 形式发送至您的预留邮箱，如需索取发票，下单成功后的三个工作日内安排开具并寄出，预祝合作愉快！