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**Dimension of Traction
Battery for Electric Vehicles**

电动汽车用动力蓄电池产品规格尺寸

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Foreword

This Standard was drafted as per the rules specified in GB/T 1.1-2009.

This Standard was proposed by Ministry of Industry and Information Technology of PRC.

This Standard shall be under the jurisdiction of National Technical Committee for Standardization of Automobile (SAC/TC 114).

Drafting organizations of this Standard: China Automotive Technology & Research Center, BYD Automobile Industry Co., Ltd., Contemporary Amperex Technology Co., Ltd., China Automotive Battery Research Institute Co., Ltd., Zhejiang Tianneng Energy Technology Co., Ltd., China Association of Automobile Manufactures, 18th Research Institute of China Electronics Technology Group Corporation, Shanghai Advanced Traction Battery Systems Co., Ltd., Hefei Guoxuan High-Tech Power Energy Co., Ltd., China FAW Group Corporation R&D Center, Beijing New Energy Automobile Co., Ltd., Chongqing Changan New Energy Vehicle Co., Ltd., Pan Asia Technical Automotive Center Co., Ltd., Tianjin EV Energies Co., Ltd., Tianjin Lishen Battery Co., Ltd., Jiangsu Chunlan Clean Energy Research Institute Co., Ltd., and CITIC Guo'an Mengguli Power Technology Co., Ltd.

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Dimension of Traction Battery for Electric Vehicles

1 Scope

This Standard specifies the specification dimensions of single-cell, module and standard case of traction battery for electric vehicles (hereinafter referred to as battery).

This Standard is applicable to the lithium-ion battery and metal hydride nickel battery mounted on the electric vehicles; other type of batteries can be implemented as per this Standard.

2 Normative References

The following documents are essential to the application of this document. For the dated documents, only the versions with the dates indicated are applicable to this document; for the undated documents, only the latest version (including all the amendments) are applicable to this document.

GB/T 1804 General Tolerances – Tolerances for Linear and Angular Dimensions without Individual Tolerance Indications

GB/T 2900.41 Electrotechnical Terminology – Primary and Secondary Cells and Batteries

GB/T 19596 Terminology of Electric Vehicles

3 Terms and Definitions

The following terms and definitions and those ones stipulated in GB/T 2900.41 and GB/T 19596 are applicable to this document.

3.1 Cylindrical cell

The battery with cylindrical battery hull and connecting element (electrode).

3.2 Prismatic cell

The battery with rectangular battery hull and connecting element (electrode).

3.3 Pouch cell

The battery with composite film made of battery hull and connecting element (electrode).

3.4 Secondary cell

The basic unit device converting the chemical energy into electrical energy; generally, it includes electrodes, diaphragms, electrolytes, hulls, terminals; and is designed to be rechargeable. Also known as battery core.

3.5 Battery module

Combine more than one secondary cells in the series connection, parallel connection, and series-parallel connection modes; the combination working as the power supply. Also known as battery pack.

3.6 Standard battery case

Used in the electric vehicles, usually include battery module, battery management module (excluding the battery control unit), battery case and the energy storage device of corresponding accessories; can apply in different entire-vehicle type through different combination modes.

4 General Requirements for Specification Dimension of Battery Products

4.1 Dimensional tolerance requirements

Each dimension of secondary cell specified in this Standard shall, as per the limit deviation of linear size specified in GB/T 1804, select tolerance level with precision of m.

4.2 Dimensional range requirements

To unify the battery specification and dimension, the dimension range is given in Table 1. The secondary cell, battery module and standard battery case (see Appendix A) within the same range belongs to the products with the same specification.

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