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

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Replacing GB/T 34013-2017

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 document was drafted in accordance with the rules given in GB/T 1.1-2020 "Directives for standardization - Part 1: Rules for the structure and drafting of standardizing documents".

This document replaces GB/T 34013-2017 "Dimension of traction battery for electric vehicles". Compared with GB/T 34013-2017, apart from structural and editorial changes, the main technical changes are as follows:

- the scope has been changed (see Clause 1; Clause 1 of the 2017 edition);
- symbols have been added (see Clause 4);
- the dimensional tolerance requirements have been deleted (see 4.1 of the 2017 edition);
- the method for determining products of the same dimension series has been changed (see Clause 5; 4.2 of the 2017 edition);
- the dimensions of the battery cells have been changed (see Clause 6; Clause 5 of the 2017 edition);
- the dimensions of the battery modules have been deleted (see Clause 6 of the 2017 edition);

- the dimensions of the battery packs have been changed (see Clause 7; Annex A of the 2017 edition);
- the dimensions of battery packs or systems for battery swapping have been added (see Clause 8).

Attention is drawn to the possibility that some elements of this document may be the subject of patent rights. The issuing body shall not be held responsible for identifying patents.

This document was proposed by the Ministry of Industry and Information Technology of the People's Republic of China and is under the jurisdiction of the National Technical Committee of Auto Standardization (SAC/TC 114).

The drafting organizations include the China Automotive Technology and Research Center, CATL, Gotion High-tech, the Equipment Industry Development Center of the Ministry of Industry and Information Technology, the China Automotive Battery Research Institute, BYD Lithium Battery, CALB, Sunwoda Power, REPT Battero, BYD Auto, SVOLT Energy, FAW, Geely Holding, Dongfeng, Seres, SAIC-GM-Wuling, EVE Energy, Deepal Automobile, Gree Altairnano, Beijing WeLion, Volkswagen (China) Investment, Huzhou Zhixin Power Systems, Wanxiang 123, BMW (China) Services, Farasis Energy, BAIC Foton, Sinotruk, XCMG New Energy and Tesla (Shanghai).

This document was first issued in 2017 as GB/T 34013-2017; this is the first revision.

1 Scope

This document provides the typical dimensions of traction batteries for electric vehicles.

It applies to traction batteries for electric vehicles.

2 Normative references

The contents of the following documents constitute indispensable provisions of this document through normative reference in the text. For dated references, only the version corresponding to that date applies; for undated references, the latest version - including all amendments - applies.

GB/T 2900.41 Electrotechnical terminology - Primary and secondary cells and batteries ·
GB/T 19596 Terminology of electric vehicles

3 Terms and definitions

The terms and definitions given in GB/T 2900.41 and GB/T 19596, together with the following, apply to this document.

3.1 cylindrical cell - a secondary cell having a cylindrical case and connecting elements,

that is electrodes. [SOURCE: GB/T 19596-2017, 3.3.1.3.1]

3.2 prismatic cell - a secondary cell having a cuboid case and connecting elements, that is electrodes. [SOURCE: GB/T 19596-2017, 3.3.1.3.2]

3.3 pouch cell - a secondary cell whose case is made of a composite film, with connecting elements, that is electrodes. [SOURCE: GB/T 19596-2017, 3.3.1.3.3]

3.4 battery cell - the basic unit device that converts chemical energy and electrical energy into each other. Note: it normally comprises electrodes, separator, electrolyte, case and terminals, and is designed to be rechargeable. [SOURCE: GB 38031-2025, 3.1]

3.5 battery pack - a unit that receives electrical energy from outside and is able to deliver electrical energy to the outside. Note: it normally comprises the battery cells, the battery management modules excluding the BCU, the battery box and the corresponding accessories such as cooling components and connecting cables. [SOURCE: GB 38031-2025, 3.3]