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National Standard

of the People's Republic of China

GB/T 31466-2015

**Voltage ratings of electric vehicles high voltage
electricity system**

电动汽车高压系统电压等级

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Foreword

This Standard was drafted in accordance with the rules of the GB/T 1.1-2009.

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

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

Drafting organizations of this Standard: the Technical Center of Dongfeng Automobile Group Co., Ltd., China Automotive Technology and Research Center, Xiangfan Tat Auto Testing Center.

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Voltage ratings of electric vehicles high voltage electricity system

1 Scope

This Standard specifies the DC voltage rating requirements for electric vehicles' high voltage system.

This Standard applies to pure electric vehicles and hybrid electric vehicles.

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 Standard.

GB/T 2900.41 Electrotechnical terminology - Primary and secondary cells and batteries

GB/T 2900.50 Electrotechnical terminology - Generation transmission and distribution of electricity - General

GB/T 19596-2004 Terminology of electric vehicles

3 Terms and definitions

Terms and definitions determined by GB/T 19596, GB/T 2900.41, GB/T 2900.50 and the following ones are applicable to this document.

3.1 Power battery system

Electric vehicle power supply system consisted of one or more than one battery and the corresponding accessories (battery management system, high voltage circuit, low voltage circuit, thermal management equipment and mechanical assembly).

3.2 Electric machine and controller system

Drive and / or power generation units composed of motor [GB/T 19596-2004, definition 3.2.1.1] and motor controller [GB/T 19596-2004, definition 3.2.1.2].

Reference

[1] GB/T 22068-2008 Automobile air conditioning electrically driven compressor assembly

[2] GB/T 24347-2009 The DC/DC converter for electric vehicles

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