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

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GB/T 24347-2009

The DC/DC converter for electric vehicles

电动汽车 DC/DC 变换器

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Foreword

This Standard is proposed by National Development and Reform Commission

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

The responsible drafting organizations of this Standard are Tsinghua University, Chinese Automotive Technology & Research Centre, Beijing University of Aeronautics and Astronautics and CSR'S Zhuzhou Electric Locomotive Research Institute.

The chief drafting staff of this standard of this Standard includes Chen Quanshi, He Yuntang, Gao Dawei, Qi Bojin, Shi Shuangrong, Yang Weibin and Wu Lixun.

The DC/DC converter for electric vehicles

1 Scope

This Standard specifies the requirements, test method, inspection rules, labeling, packaging, transportation and storage, etc. for the DC/DC converter for electric vehicles.

This Standard applies to the DC/DC converter of power supply for electric vehicles. For the DC/DC converter used for the low voltage power system (12V, 24V) of accessories and control systems, this Standard may be referred to, as relevant.

The DC/DC converters involved in this Standard have power ranging from 1 kW to 200 kW), not including modular low-power DC/DC converters.

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/T 2423.1, Environmental testing for electric and electronic products – Part 2: Test methods – Tests A: Cold (GB/T 2423.1-2008, IEC 60068-2-1: 2007, IDT)

GB/T 2423.2, Environmental testing for electric and electronic products – Part 2: Test methods – Tests A: Hot (GB/T 2423.2-2008, IEC 60068-2-2: 2007, IDT)

GB/T 2423.17, Environmental testing for electric and electronic products – Part 2: Test methods – Tests Ka: Salt spray (GB/T 2423.17-2008, IEC 60068-2-1: 1981, IDT)

GB 4208-2008, Degrees of protection provided by enclosure (IP code) (IEC 60529:2001, IDT)

GB 14711-2006, General requirements for safety of small and medium size rotating electrical machines

GB/T 17619-1998, Limits and methods of testing for immunity of electrical / electronic sub-assemblies in vehicles to electromagnetic radiation

GB/T 18384.1-2001, Electric vehicles - Safety specification - Part 1: On-board energy storage

GB/T 18488.1-2006, The electrical machines and controllers for electric vehicles Part 1: General specification



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