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**Hybrid Electric Vehicles – Power Performance – Test  
Method**

**混合动力电动汽车 动力性能 试验方法**

**Issued on May 23, 2005**

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**General Administration of Quality Supervision, Inspection and  
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## Foreword

This Standard is formulated based on EN 1821-2 *Electrically propelled road vehicles - Measurement of road operating ability - Part 2: Thermal electric hybrid vehicles* and America Recommended Standard ETA-TP002 *Electric Vehicle Acceleration, Gradeability, and Deceleration Test Procedure*.

This Standard was proposed by National Technical Committee on Road Vehicles of Standardization Administration of China.

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

Draft units of this Standard are Tianjin Qingyuan Electric Vehicle Co., Ltd, China Automotive Technology and Research Center.

Main drafters of this Standard are Zhou Rong, Wu Zhixin, Zhao Jingwei, He Yuntang, Yang Jingqun and Liu Guibin.

# Hybrid Electric Vehicles- Power Performance –Test Method

## 1 Scope

This Standard specifies the test methods of power performance of hybrid electric vehicles.

This Standard is applicable to hybrid electric vehicle of category M<sub>1</sub>, category M<sub>2</sub>, M<sub>3</sub>, N<sub>1</sub>, N<sub>2</sub> and N<sub>3</sub> given in GB/T 15089.

## 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 3730.2 Road vehicle-Masses-Vocabulary and codes (GB/T 3730.2-1996, idt ISO 1176: 1990)

GB/T 12548 Motor vehicles—Speedometer and odometer—Calibration method

GB/T 15089 Classification of power-driven vehicles and trailers (eqv ECE R3: 1997)

GB/T 18385-2001 Electric vehicles-Power performance-Test method (eqv ISO/DIS 8715: 1997)

GB/T 19596-2004 Terminology of electric vehicles

## 3 Terms and Definitions

For the purposes of this Standard, the terms and definitions given in GB/T 3730.2 and GB/T 19596 apply

### 3.1

#### Hybrid mode

The operating mode that the vehicle is driven by the vehicle-mounted dynamic system of combustion engine (or other heat engine) and electric machine according to management logic (finished automobile control strategy).

### 3.2

#### Pure thermal mode

The operating mode that the vehicle is only driven by combustion engine (or other heat machine) to run.

### 3.3

#### Pure electric mode

The operating mode that the vehicle is only driven by the electric machine to run.

### 3.4

#### Maximum speed in hybrid mode

The average value of the maximum speeds of the vehicle that runs for more than 1 km in hybrid dynamic state specified in Clause 9.1.

### 3.5

#### Acceleration ability 0 ~ 100 km /h (0~50 km/h)

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