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PROFESSIONAL STANDARD OF THE PEOPLE'S  
REPUBLIC OF CHINA

**中华人民共和国汽车行业标准**

QC/T 926-2013

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**The reliability test methods for powertrain unit  
of light-duty hybrid electric vehicles (ISG type)**  
**轻型混合动力电动汽车（ISG 型）用动力单元可靠性  
试验方法**

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## **Foreword**

This Standard is drafted according to the rules specified in GB/T 1.1-2009

Annex A and Annex B of this Standard are normative annex.

This Standard is proposed by and under the jurisdiction of National Technical Committee (SAC/TC 114) on Road Vehicles of Standardization Administration of China.

The responsible drafting organizations are Chongqing Changan New Energy Automobile Co., Ltd, Chinese Automotive Technology & Research Centre, Chongqing Changan Automobile Co., Ltd, Beijing Institute of Technology, Technical Center of Dongfeng Motor Corporation, Chery New Energy Automobile Co., Ltd, Shenzhen BYD Automobile Co., Ltd and Technical Center of FAW Group.

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# **The reliability test methods for powertrain unit of light-duty hybrid electric vehicles (ISG type)**

## **1 Scope**

The standard stipulates the reliability test methods for powertrain unit of light-duty hybrid electric vehicles (ISG type).

This standard applies to the power units for M<sub>1</sub> and N<sub>1</sub> electric vehicles and M<sub>2</sub> hybrid electric vehicles (ISG type) with the maximum design total mass of no more than 3.5t.

This standard does not apply to the assessment of idling start-stop function.

## **2 Normative references**

The articles contained in the following documents have become this document when they are quoted herein. For the dated documents so quoted, all the modifications (Including all corrections) or revisions made thereafter shall be applicable to this document.

GB/T 18297-2001 Performance test code for road vehicle engines

GB/T 18488.2 The electrical machines and controllers for electric vehicles - Part 2: Test methods

GB/T 19055-2003 Reliability test methods for motor vehicle engines

GB/T 19596 Terminology of electric vehicles

QC/T 893-2011 Failure classification and assessment of electrical machine system for electric vehicle

## **3 Terms and Definitions**

For the purpose of this document, the following terms and definitions those defined in GB/T 19596 apply.

### **3.1**

#### **Hybrid control unit (HCU)**

Controller for hybrid power system

### **3.2**

#### **Integrated starter and generator (ISG)**

Motor with integrated starting and power generating functions

### **3.3**

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