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GB/T 19753-2005

Test Methods for Energy Consumption of Light-duty

Hybrid Electric Vehicles

轻型混合动力电动汽车

能量消耗量 试验方法

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Foreword

This Standard refers to partial technical contents on test for energy consumption of hybrid electric vehicle of *ECE R101.01 Proposal of Amended Draft* proposed by ECE in October 30, 2003 and enriched based on relevant technical contents of SAE J1711-1999 and EN 1986-2-2001.

Annex A, Annex B and Annex C of this Standard is normative annex.

Annex D of this Standard is informative annex

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 and Chery Automobile Corporation Limited.

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Test Methods for Energy Consumption of Light-duty Hybrid Electric Vehicles

1 Scope

This Standard specifies the test methods for energy consumption of light-duty hybrid electric vehicle equipped with spark ignition engine or compression ignition engine.

This Standard is applicable to the categories of M_1 , M_2 and N_1 hybrid electric vehicles equipped with ignition engine or compression engine and with a maximum mass not exceeding 3500 kg.

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 18352.2-2001 Limits and measurement methods for emissions of pollutants from light-duty vehicles(II)

GB/T 19233-2003 Measurement methods of fuel consumption for light-duty vehicles

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 19596 apply

4 Classification of light-duty hybrid electric vehicles

In this Standard, according to whether it needs external charge or not and whether the vehicle has the manual selection function of driving modes, the hybrid electric vehicles are classified into four categories as shown in Table 1.

Table 1 Classification of hybrid electric vehicles

Off-vehicle charging function of energy storage	Off-vehicle charging (OVC) ^a		Not off-vehicle charging (NOVC)	
	Not applicable	Applicable	Not applicable	Applicable
Manual selection function of the driving modes	Not applicable	Applicable	Not applicable	Applicable
Relevant type of hybrid electric vehicle	Off-vehicle charging, no manual selection function of the driving mode	Off-vehicle charging, with manual selection function of the driving mode	Not off-vehicle charging, no manual selection function of the driving mode	Not off-vehicle charging, with manual selection function of the driving mode

^a Only when the external charge is recommended or required in the instruction manual provide by the manufacturer through other clear ways, the hybrid electric vehicle can be “off-vehicle charging”, which is only used for the adjustment of irregular energy storages rather than normal vehicle external energy supplement. Even the vehicle that has external charge capacity is not considered as the type “off-vehicle charging”.



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