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Test Methods for Energy Consumption and Range of Electric Vehicles — Part 2: Heavy-Duty Commercial Vehicles

电动汽车能量消耗量和续驶里程试验方法 第2部分:重型商用车辆

(English translation)

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CONTENTS

Intr	reword	. II
	oduction	. 111
1	Scope	. 1
2	Normative References	. 1
3	Terms and Definitions	. 1
4	Test Conditions	. 1
	4.1 Ambient Conditions	. 1
	4.2 Measurement Parameters, Units, and Accuracy	. 1
	4.3 Test Vehicle	
	4.4 Test Cycle	3
5	Test Procedure	
	5.1 General Requirements	
	5.2 Tolerances	
	5.3 Criteria for Terminating Test	4
	5.4 Initial Charging of the REESS	4
	5.5 Driving Range Test	5
	5.6 REESS Charging and Energy Measurement	7
6	Calculation Methods of Energy Consumption and Driving Range	
	6.1 General	
	6.2 Energy Consumption	8
	6.3 Driving Range	
7	Driver-Selectable Modes	
	7.1 General Requirement	. 10
	7.2 Selection of Driver-Selectable Modes	. 11
Anr	nex A (Normative) REESS Current and Voltage Measurement	. 13

Test Methods for Energy Consumption and Range of Electric Vehicles — Part 2: Heavy-Duty Commercial Vehicles

1 SCOPE

This document specifies the test methods for energy consumption and driving range of battery electric vehicles (BEV).

This document is applicable to the BEVs with a maximum design total mass exceeding 3,500 kg, including trucks, tractor-trailers, coaches, dumpers, and urban buses. The concrete mixing carriers may refer to the measuring methods for dumpers, while other special purpose transportation vehicles may refer to the measuring methods for trucks.

This document doesn't apply to special motor vehicles, including special goods vans, special goods tankers, special tippers, special goods box/stake trucks, special goods crane/lift trucks, and special goods special construction vehicles.

2 NORMATIVE REFERENCES

The following referenced documents are indispensable for the application of this document. For dated references, only the editions cited apply. For undated references, the latest editions of the normative document (including any amendments) apply.

GB 7258 Technical specifications for safety of power-driven vehicles operating on

roads

GB/T 12534 Motor vehicles—General rules of road test method

GB 18352.6-2016 Limits and measurement methods for emissions from light-duty vehicles

(CHINA 6)

GB/T 19596 Terminology of Electric Vehicles

GB/T 27840 Fuel Consumption Test Methods for Heavy-Duty Commercial Vehicles

GB/T 38146.2-2019 China Automotive Test Cycle - Part 2: Heavy-Duty Commercial Vehicles

3 TERMS AND DEFINITIONS

For the purpose of this document, the terms and definitions given in GB 7258, GB/T 19596, GB 18352.6-2016 and GB/T 38146.2-2019 apply.

4 TEST CONDITIONS

4.1 Ambient Conditions

- 4.1.1 The recommended ambient temperature is (23±5) °C; as recommended by the vehicle manufacturer and upon approval of the test agency, the ambient temperature range can be extended to 5°C to 35°C. Temperature shall not go beyond this range during testing and at the beginning and end of testing.
- 4.1.2 The relative humidity shall be less than 95%.
- 4.1.3 The atmospheric pressure shall be between 91 kPa and 104 kPa.



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