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NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA

ICS 43.080.01

T 47

GB/T 34585-2017

Battery electric goods vehicles - Specifications

纯电动货车 技术条件

Issued on: October 14, 2017

Implemented on: July 1, 2018

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine of the PRC;**

Standardization Administration of the PRC.

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Battery electric goods vehicles - Specifications

1 Scope

This Standard specifies the terms and definitions, requirements, and test methods of battery electric goods vehicles.

This Standard is applicable to battery electric goods vehicles (hereafter known as “vehicles” for short).

2 Normative references

The following documents are indispensable for the application of this document. For the dated references, only the versions with the dates indicated are applicable to this document. For the undated references, the latest version (including all the amendments) are applicable to this document.

GB 1589 Limits of Dimensions, Axle Load and Masses for Motor Vehicles, Trailers and Combination Vehicles

GB 7258 Safety specifications for power-driven vehicles operating on roads

GB/T 18384 (all parts) Electrically propelled road vehicles - Safety specifications

GB/T 18385 Electric vehicles - Power performance - Test method.

GB/T 18386 Electric vehicles - Energy consumption and range - Test procedures

GB/T 19596 Terminology of electric vehicles

GB/T 20234 (all parts) Connection set for conductive charging of electric vehicles

GB/T 27930 Communication protocols between off-board conductive charger and battery management system for electric vehicle

GB/T 31498 The safety requirement of electric vehicle post crash

3 Terms and definitions

What defined in GB/T 19596 and the following terms and definitions are

In accordance with the test method prescribed by GB/T 18385, the maximum gradeability of the vehicle is measured. It shall not be less than 20%.

4.5.2 Range

Class N1 vehicles, according to the mode-test (including suburban mode) of GB/T 18386, shall be tested; the range shall not be lower than 80 km. Other types of vehicles, by the isokinetic method of GB/T 18386, shall be tested; the range shall not be lower than 120 km.

4.5.3 30 min maximum speed

The vehicle, in accordance with the test method specified in GB/T 18385, shall measure the 30 min maximum speed. Its value shall not be less than 70 km/h.

4.6 Power storage battery

The power battery shall meet the following requirements:

- The vehicle's power storage battery shall not use lead-acid battery;
- The cycle life, safety, and electrical performance shall conform to the requirements of relevant national regulations.

4.7 Reliability requirements

4.7.1 Mileage distribution

The total mileage of reliability driving test is 15000 km, including 5000 km of intensified bad roads, 5000 km of flat roads, and 5000 km of high-speed roads. The road performance test mileage before reliability driving test, and mileage of each test room can be included in reliability test mileage.

4.7.2 Breakdown

During the whole reliability test, in the complete vehicle controller and bus system, power storage battery and management system, motor and motor controller, on-board charging system (if any), and other systems and equipment, there shall be no any breakdown (fatal breakdown) which endangers personal safety, causes major assembly scrapping, and causes serious damage to the surrounding environment. Nor shall there be any breakdown (serious breakdown) which affects driving safety, causes serious damage to the main components and assembly, or which cannot be eliminated in a short period of time by damageable spare parts and basic hand tools.

Other systems and components are assessed against the requirements of relevant standards.

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