

ICS 43.080.01
CCS T 47



中华人民共和国国家标准
NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 26991-2023
Replaces GB/T 26991-2011

Test Methods for Power Performance of Fuel Cell
Electric Vehicles
燃料电池电动汽车动力性能试验方法

(English Translation)

Issued on 2023-12-28

Implemented on 2024-07-01

Jointly Issued by
State Administration for Market Regulation of the People's Republic of China &
Standardization Administration of the People's Republic of China

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Test Methods for Power Performance of Fuel Cell Electric Vehicles

1 SCOPE

This document describes the test methods for power performance, e.g., acceleration ability, maximum speed, and gradeability, etc., of fuel cell electric vehicles.

This document is applicable to the power performance testing of categories M and N fuel cell electric vehicles (hereinafter referred to as “vehicle” or “FCEV”) using compressed hydrogen.

2 NORMATIVE REFERENCES

The following normative documents contain provisions which, through normative reference in this text, constitute essential provision of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendment) applies.

GB/T 3730.2	Road vehicles - Masses - Vocabulary and codes
GB/T 12428	Laden mass calculating method for bus
GB/T 12534	Motor vehicles - General rules of road test method
GB/T 12539	Motor vehicles steep hill climbing test method
GB/T 12545.1-2008	Measurement methods of fuel consumption for automobiles - Part 1: Measurement methods of fuel consumption for passenger cars
GB/T 15089	Classification of power-driven vehicles and trailers
GB 18384	Electric vehicles safety requirements
GB/T 18385	Electric vehicles - Power performance Test method
GB/T 19596	Terminology of electric vehicles
GB/T 19752	Hybrid electric vehicles-Power performance-Test method
GB/T 24548	Fuel cell electric vehicles - Terminology
GB/T 37244	Fuel specification for proton exchange membrane fuel cell vehicles - Hydrogen

3 TERMS AND DEFINITIONS

For the purpose of this document, the terms and definitions given in GB/T 12539, GB/T 15089, GB 18384, GB/T 18385, GB/T 19596, GB/T 19752 and GB/T 24548 as well as the following apply.

3.1 rechargeable electrical energy storage system (REESS) mode

A drive mode in which the REESS provides energy or power for the vehicle only

3.2 hybrid mode

A drive mode in which two or more energy sources or power sources are used to provide energy or power for the vehicle at the same time



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