GB

NATIONAL STANDARD OF THE

PEOPLE'S REPUBLIC OF CHINA

ICS 43.040.30

T 39

GB/T 19836-2019

Replacing GB/T 19836-2005

Instrumentation for electric vehicle

电动汽车仪表

[Including 2022XG1]

Issued on: October 18, 2019 **Implemented on: May 01, 2020**

Issued by: State Administration for Market Regulation;

Standardization Administration of the People's Republic of China.

Table of Contents

Instrumentation for electric vehicle

1 Scope

This Standard specifies the unique indication or display content of the instrumentation for electric vehicle.

This Standard is applicable to the electric vehicle (hereinafter referred to as “the vehicle”).

2 Normative references

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

GB/T 18384.2-2015, *Electrically propelled road vehicles - Safety specifications - Part 2: Vehicle operational safety means and protection against failures*

GB/T 19596, *Terminology of electric vehicles*

GB/T 24549-2009, *Fuel cell electric vehicles - Safety requirements*

QC/T 213, *Automobile and motorcycle instrument terminology*

3 Terms and definitions

For the purposes of this document, the terms and definitions defined in GB/T 18384.2-2015, GB/T 19596 and QC/T 213 as well as the followings apply.

4 Indication or display content

4.1 Drivable mode

When the electric vehicle is at the drivable mode, the requirements for indication or display of the vehicle instrumentation shall meet the requirements in 4.1 of GB/T 18384.2-2015.

4.2 Drivable mileage

4.2.1 The instrumentation of the pure electric vehicle and fuel cell electric vehicle shall be able to indicate or display the drivable mileage.

4.2.2 For the hybrid electric vehicle that has pure electric drive mode and cannot be externally charged, the instrumentation shall be able to indicate or display the pure electric drivable mileage.

4.2.3 For the hybrid electric vehicle that can be externally charged, its instrumentation shall be able to indicate or display the pure electric drivable mileage.

4.2.4 The indication or display mode and accuracy of drivable mileage shall comply with the provisions of vehicle manufacturer.

4.3 Vehicle instantaneous power

4.3.1 Instantaneous power of drive system

4.3.1.1 When the drive systems of pure electric vehicle and fuel cell electric vehicle have power output, the vehicle instrumentation shall indicate or display the output instantaneous power of vehicle drive system. The available remaining power of the vehicle drive system shall be indicated or displayed at the same time.

4.3.1.2 When the hybrid electric vehicle that can be externally charged is at the pure electric drive mode, the vehicle instrumentation shall be able to indicate or display the output instantaneous power of vehicle drive system. The available remaining power of the vehicle drive system shall be indicated or displayed at the same time.

4.3.1.3 The instantaneous power of drive system indicated or displayed by the vehicle instrumentation as well as the available remaining power can use other units (such as current or percentage) to replace. The indication or display mode and accuracy shall comply with the provisions of vehicle manufacturer.

4.3.1.4 The indication or display of the available remaining power can be realized through the combination of maximum power and instantaneous power of the drive system. The mode and accuracy of the maximum power indication or display of the drive system shall comply with the provisions of vehicle manufacturer.

4.3.2 Instantaneous power of brake energy recovery system

4.3.2.1 For the electric vehicle that has brake energy recovery system, its instrumentation shall be able to indicate or display the instantaneous power recycled by the vehicle energy storage system.

4.3.2.2 The instantaneous power of brake energy recovery system indicated or

This is an excerpt of the PDF (Some pages are marked off intentionally)

------ The End ------