

ICS 43.020
CCS T09



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 38117-2019

Electric vehicle product description - Emergency rescue

电动汽车产品使用说明 应急救援

Issued on: October 18, 2019

Implemented on: May 1, 2020

**Issued by: State Administration for Market Regulation;
Standardization Administration of the PRC**

Table of Contents

Foreword...	3
1 Scope...	4
2 Normative References...	4
3 Formulation Requirements...	4
8 Appendix B (Informative) Example of Emergency Rescue Manual of Electric Commercial Vehicle...	14

Foreword

This Standard was drafted as per the rules specified in GB/T 1.1-2009. This Standard was proposed by Ministry of Industry and Information Technology. This Standard shall be under the jurisdiction of National Technical Committee for Standardization of Automobiles (SAC/TC 114). Drafting organizations of this Standard: Shanghai Fire Research Institute, Ministry of Public Security; BYD Automobile Industry Co., Ltd.; China Automotive Technology & Research Center Co., Ltd.; Beijing Electric Vehicle Co., Ltd.; Contemporary Amperex Technology Co., Ltd.; SAIC Motor; Zhengzhou Yutong Bus Co., Ltd.; FAW Car Co., Ltd.; Pan Asia Technical Automotive Center Co., Ltd.; Zhidou Electric Vehicle Co., Ltd.; and Fire Department of Ministry of Public Security. Chief drafting staffs of this Standard: Hang Hao, Zhang Yongfeng, Ling Heping, Liu Guibin, Lu Chun, Xue Lin, Xue Weiguang, Cao Liying, Zhang Lei, Peng Wang, Zhang Haitao, Li Aimin, Wang Lifa, Liu Chaohui, Song Fang, Wu Pei, Yang Weinong, and He Ning. Electric Vehicles Product Description - Emergency Rescue

1 Scope

China's national standard for the emergency rescue information that must accompany an electric vehicle. It specifies the formulation requirements and the content requirements, with an informative annex. The document it governs is the rescue sheet: the single page that tells firefighters and rescue crews what they are dealing with when they arrive at a crashed electric vehicle. They need to know where the high voltage battery is, where its cables run, where to cut and where not to, how to disable the system, and what to expect if the battery is damaged - because a lithium battery that has been crushed can ignite hours later, and reignite after being extinguished. None of that is obvious from outside the vehicle, and the crew has minutes. Standardising the format matters as much as the content: a rescuer looking at an unfamiliar model needs to find the same information in the same place regardless of who built it.

This Standard specifies the contents and formulation requirements for the emergency rescue in the electric vehicle product description. This Standard is applicable to the contents and formulation of the emergency rescue in the electric vehicle product description.

2 Normative References

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

GB/T 2893.1 Graphical Symbols - Safety Colors and Safety Signs - Part 1: Design Principles for Safety Signs and Safety Markings

GB/T 5296.1 Instructions for Use of Products of Consumer Interest -- Part 1: General Principles

GB/T 19596 Terminology of Electric Vehicles

GB/T 24548 Fuel Cell Electric Vehicles -- Terminology

3 Formulation Requirements

3.1 The emergency rescue part of the electric vehicle product description shall form a separate manual; the paper version of it shall be accompanied by the vehicle; its contents and format can refer to Appendixes A and B.

3.2 The emergency rescue part of the electric vehicle product description shall include the following contents such as the electric vehicles' product information, safety sign information, emergency rescue disposal procedure information, other information deemed necessary by the vehicle manufacturer, etc.; and it shall be formulated in the perspective view of the vehicle.

4.1.4.3 In addition to the requirements in 4.1.4.1, the fuel cell electric vehicle shall also include the information such as fuel cell system, on-board hydrogen supply system and location where leakage may occur, etc. When the information concerning the position is involved, it shall be given in the side perspective view and top-down perspective view of the vehicle.

4.1.4.4 The information on the type, rated voltage and rated capacity of the electric vehicle's power battery; the number, size, voltage, capacity and weight of the battery pack; the rated voltage and rated capacity of the battery system shall be given.

4.1.5 Emergency device information The name, function, position and use of all emergency device and escape device in electric vehicle products shall be stated. The position and use

method shall be illustrated in a top-down perspective view and side perspective view of vehicle; while the appearance shall be illustrated in the form of physical photograph.

4.2 Safety sign information All safety signs related to emergency rescue of the vehicle shall be given with an explanation.

4.3 Emergency rescue disposal procedure information The emergency rescue disposal procedure information of the electric vehicle product shall include but not limited to the following information:

- a) Relevant information such as types of protective equipment required for the emergency rescue personnel and the minimum requirements for protective performance;
- b) The operation manner in which the vehicle is stopped, and illustrate graphically;
- c) Procedures for high-voltage disconnection, the appearance, position and operation steps of all components and operation method for high-voltage disconnection shall be illustrate graphically;
- d) Fuel cell electric vehicles shall also provide equipment and methods required for hydrogen leakage and hydrogen fame detection;
- e) The parts that are difficult for the emergency rescue personnel to cut and expand, and the parts that can't be cut, expanded and pierced shall be illustrated graphically;