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

GB/T 37532-2019

**General technical specification for 120 km/h to 160 km/h
commuter express vehicles for urban rail transit**

城市轨道交通市域快线120 km/h~160 km/h车辆通用技术条件

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Table of Contents

1 Scope	1
2 Normative references	1
3 Terms and Definitions	2
4 Conditions of use 3 5 vehicle type	4
6 General Provision	5
7 Vehicle type and train formation	8
8 Body and interior equipment 9 9 bogie	11
10 Electrical traction system 12 11 auxiliary power system	13
12 Train Network Control System	14
13 Brake and air supply system	14
14 Air conditioning and heating systems	15
15 Train Broadcasting and Passenger Information System 16 16 train land communication	16
17 Safety facilities	16
18 Electromagnetic compatibility	16
19 Inspection and acceptance	17
20 Marking, Transport and Quality Assurance	20

Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009. This standard was proposed by the Ministry of Housing and Urban-Rural Development of the People's Republic This standard is under the jurisdiction of the National Urban Rail Transit Standardization Technical Committee (SAC/TC290). This standard was drafted. CRRC Qingdao Sifang Locomotive & Rolling Stock Co., Ltd., Zhuzhou Zhongche Times Electric Co., Ltd., China Railway Institute of Locomotive and Rolling Research, Qingdao Metro Group Co., Ltd., Southwest Jiaotong University, Beijing Jiaotong University, CRRC Changchun Rail Transit Vehicle Co., Ltd., Zhongqi Qishuyan Locomotive and Rolling Stock Technology Research Institute Co., Ltd., Zhongche Nanjing Puzhen Vehicle Co., Ltd., Zhongche Tangshan Machine Vehicle Co., Ltd., CZ Zhuzhou Electric Locomotive Co., Ltd. The main drafters of this standard. Liang Jianying, Yang Jihong, Cao Zhiwei, Zhang Hongjiang, Shan Baoqiang, Yang Weijun, Chen Wenguang, Yang Zhongping, Lin Jianhui, Wang Huaidong, Yuan Bo, Xu Shidong, Dong Xiaohong, Zhang Yihe, Guan Quanmei, Jiang Tianfang, Chen Zhongjie, Zeng Yaozheng, Liu Yuwen, Liang Junhai, Zhang Yujuan. Urban

rail transit city express General technical conditions for vehicles from 120km/h to 160km/h

1 Scope

China's national general technical specification for urban rail commuter express vehicles running at 120 to 160 kilometres an hour. It specifies the terms and definitions, the conditions of use, the vehicle types, the general provisions, the vehicle types and train formations, and the requirements on the body and the equipment. The speed range is the point of the document. A metro car is built for 80 kilometres an hour, frequent stops and standing passengers; a main line train is built for long distances and seated passengers. The commuter express sits between them, for the suburban lines that Chinese cities have built out to satellite towns thirty or fifty kilometres from the centre - too far for a metro to be tolerable, too short for a railway service to be frequent enough. At those speeds the vehicle needs main line aerodynamics, crashworthiness and bogie design, while keeping the wide doors, rapid boarding and metro signalling of an urban system.

This standard stipulates the conditions of use, vehicle type and general regulations for vehicles of urban rail transit city express line from 120km/h to 160km/h. Fixed, vehicle type and train formation, vehicle body and interior equipment, bogie, electric traction system, auxiliary power system, train network control system, Brake and air supply systems, air conditioning and heating systems, train broadcasting and passenger information systems, train and land communication, safety facilities, electromagnetic compatibility Sex, inspection and acceptance, marking, transportation and quality assurance period. This standard is applicable to newly designed and manufactured vehicles of urban rail transit city express line 120km/h~160km/h (hereinafter referred to as the city express) Line vehicle).

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article. Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 1402 rail transit traction power supply system voltage

GB/T 4208-2017 enclosure protection grade (IP code)

GB/T 4549.3-2004 Railway vehicles - Vocabulary - Part 3

GB/T 5599-1985 Railway Vehicle Dynamics Performance Evaluation and Test Identification Specification

GB/T 11944-2012 Insulating glass

GB/T 12528-2008 Cables for rail transit vehicles with rated voltages up to 3kV

GB/T 14894-2005 Inspection and test rules for assembly of urban rail transit vehicles

GB 18045-2000 Safety glass for railway vehicles

GB/T 21413 (all parts) Railway application of rolling stock electrical equipment

GB/T 21561.1 Railway rolling stock -- Characteristics and testing of pantographs - Part 1

GB/T 21561.2 Railroad vehicles -- Characteristics and testing of pantographs - Part 2

GB/T 21563 Rail Vehicle Locomotive Equipment Impact and Vibration Test

GB/T 24338.3 Electromagnetic compatibility of rail transit Part 3-1. Locomotive trains and vehicles