

ICS 43.040.99

CCS T 35

GB

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

GB/T 20234.1-2023

Replacing GB/T 20234.1-2015

Connection set for conductive charging of electric vehicles -

Part 1: General requirements

电动汽车传导充电用连接装置 第 1 部分:通用要求

Issued on: September 07, 2023

Implemented on: September 07, 2023

Issued by: State Administration for Market Regulation;

Standardization Administration of the People's Republic of China.

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Foreword

This document was drafted in accordance with the rules given in GB/T 1.1-2020 "Directives for standardization - Part 1: Rules for the structure and drafting of standardizing documents".

This document is Part 1 of GB/T 20234 "Connection set for conductive charging of electric vehicles". The following parts of GB/T 20234 have been issued:

- Part 1: General requirements;
- Part 2: AC charging coupler;
- Part 3: DC charging coupler.

This document replaces GB/T 20234.1-2015 "Connection set for conductive charging of electric vehicles -- Part 1: General requirements". Compared with GB/T 20234.1-2015, in addition to structural adjustments and editorial changes, the main technical changes in this document are as follows:

- a) Change rated voltage and rated current (see Chapter 1 and Chapter 5 of this Edition; Chapter 1 and Chapter 5 of Edition 2015);
- b) Add some terms and definitions (see Chapter 3 of this Edition; Chapter 3 of Edition 2015);
- c) Add requirements and corresponding test methods for temperature cycling, alternating heat and humidity, thermal management systems, liquid cooling medium cooling devices, temperature detection, locking devices, offset operations, contact durability, charging cables and in-cable devices. Change in grounding conductor specifications, grounding measures, mechanical strength, normal operation requirements and corresponding test methods. Delete the breaking capacity requirements of the DC charging coupler (see Chapter 6 and Chapter 7 of this Edition; Chapter 6 and Chapter 7 of Edition 2015);
- d) Add inspection requirements such as type inspection plan (see Chapter 8 of this Edition);
- e) Add Annex B "Reference test tools for temperature rise test" (see Annex B of this Edition).

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This document was proposed by Ministry of Industry and Information Technology of the People's Republic of China.

This document shall be under the jurisdiction of National Technical Committee on Automobiles of Standardization Administration of China (SAC/TC 114).

The drafting organizations of this document: China Automotive Technology and Research Center Co., Ltd., BYD Auto Industry Co., Ltd., China Electrical Equipment Research Institute Co., Ltd., Suzhou Zhilv Environmental Protection Technology Co., Ltd., AVIC Optoelectronics Technology Co., Ltd., Amphenol Precision Connector (Shenzhen) Co., Ltd., China Automotive Research Institute New Energy Vehicle Inspection Center (Tianjin) Co., Ltd., NIO Technology (Anhui) Co., Ltd., China Quality Certification Center, Shenzhen Basba Technology Development Co., Ltd., Guangzhou Xpeng Automotive Technology Co., Ltd., Huawei Digital Energy Technology Co., Ltd., Beiqi Foton Motor Co., Ltd., Phoenix (Nanjing) New Energy Vehicle Technology Co., Ltd., Huizhou Zhidian Weilian New Energy Technology Co., Ltd., Weihai Honglin Electric Power Technology Co., Ltd., Chongqing Changan New Energy Vehicle Technology Co., Ltd. Company, Cyrus Automobile Co., Ltd., Shenzhen Wall New Energy Electrical Technology Co., Ltd., Henan Tianhai Electric Co., Ltd., Guangdong OMG Conductive Technology Co., Ltd., Tyco Electronics (Shanghai) Co., Ltd., Shenzhen Lingsheng Technology Co., Ltd., Shanghai National Cable Testing Co., Ltd., Chery New Energy Vehicle Co., Ltd., Yutong Bus Co., Ltd., Sichuan Yonggui Technology Co., Ltd., Zhejiang Lida Electric Co., Ltd., Xiangyang Daan Automobile Testing Center Co., Ltd., Great Wall Motor Co., Ltd., Yueqing Bada Optoelectronics Technology Co., Ltd.

Main drafters of this document: Lian Yubo, Xu Xiao, Chen Bin, Zhou Guangrong, Wang Jiaojiao, Shao Changhong, Cai Jun, Zheng Tianlei, Wang Wei, Liu Jianjian, Shuai Qiangjun, Liu Junhua, Liu Shuiqiang, Wang Min, Shi Lei, Xu Pingan, Li Chao, Cao Dongdong, Huang Hongtu, Wang Huajiang, Peng Xianwei, Jia Haifeng, Han Jianqiang, Fan Bin, Lu Guowei, Xiao Jianhua, Zhang Qiang, Zhu Fangyue, Li Fan, Liang Tangjie, Gao Yanwan, Han Siyuan, Yu Tong, Peng Jianhua, Li Na, Zhou Chengyong, Wu Shaohua, Lu Ping, Wang Guotang, Xie Zhiguo, Xia Quanfei, Xu Yang, Wu Xuejian, Kong Deyuan, Liu Yufeng, Li Huanhua, Zheng Wei.

Versions of standard substituted by this document are:

- GB/T 20234.1-2015 that was issued for the first time in 2006;
- When it was first revised in 2011, it was revised as Part 1 of this series of Standard as GB/T 20234.1-2011;
- The second revision was in 2015;
- This is the third revision.