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NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

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Safety Requirements for Electric Vehicle Conductive  
Charging System

电动汽车传导充电系统安全要求

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# Safety Requirements for Electric Vehicle Conductive Charging System

## 1 SCOPE

This document specifies the requirements for general safety, charging coupler safety, AC charging safety and DC charging safety of the electric vehicle conductive charging system, and describes their respective test methods.

This document is applicable to the EV AC charging system and the EV DC charging system, which have a rated voltage up to 1,000 V (AC) or 1,500 V (DC) at the supply network side and a rated maximum voltage up to 1,000 V (AC) or 1,500 V (DC) at the EV side; it is also applicable to the safety requirements for charging in the EV bi-directional charging system.

This document is not applicable to:

- The safety requirements concerning the maintenance of EV conductive charging/bi-directional charging system;
- The automatic charging system, e.g., top contact charging system.

## 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 1002	Single phase plugs and socket-outlets for household and similar purposes -Types, basic parameters and dimensions
GB/T 2099.1	Plugs and socket-outlets for household and similar purposes—Part 1: General requirements
GB/T 4208-2017	Degrees of Protection Provided by Enclosure (IP code)
GB/T 11918.1-2014	Plugs, socket-outlets and couplers for industrial purposes—Part 1: General requirements
GB/T 11918.2-2014	Plugs, socket-outlets and couplers for industrial purposes—Part 2: Dimensional compatibility and interchangeability requirements for pin and contact-tube accessories
GB 18384	Electric vehicles safety requirements
GB/T 18487.1-2023	Electric vehicle conductive charging system—Part 1: General requirements
GB/T 20234.1-2023	Connection set for conductive charging of electric vehicles—part 1: general requirements
GB/T 20234.3	Connection set for conductive charging of electric vehicles—Part 3: DC charging coupler
GB/T 20234.4	Connection set of conductive charging for electric vehicles—Part 4: High power DC charging coupler
GB/T 27930-2023	Digital communication protocols between off-board conductive charger and electric vehicle
GB/T 34657.1	Interoperability test specifications of electric vehicle conductive charging—Part 1: Supply equipment
GB/T 34657.2	Interoperability test specifications of electric vehicle conductive charging—Part 2: Vehicle
GB 39752	Safety requirements of electric vehicle conductive supply equipment



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