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Connection set of conductive charging for electric vehicles -

Part 4: High power DC charging coupler

电动汽车传导充电用连接装置 第 4 部分：大功率直流充电接口

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Foreword

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

This document is Part 4 of GB/T 20234 "Connection set of conductive charging for electric vehicles". GB/T 20234 has released the following parts:

- Part 1: General requirements;
- Part 2: AC charging coupler;
- Part 3: DC charging coupler;
- Part 4: High power DC charging coupler.

This document was proposed by AND shall be under the jurisdiction of the China Electricity Council.

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Introduction

Conductive charging is the basic way to realize electric energy supply for electric vehicles. GB/T 20234 aims to standardize the technical requirements and test methods for charging connection devices; unify the interface type and structural size of the charging coupler, thereby realizing the interconnection between electric vehicles and charging infrastructure. GB/T 20234 is planned to consist of four parts.

- Part 1: General requirements. The purpose is to establish the general performance requirements for charging connection devices AND ensure the functionality and reliability of the product.
- Part 2: AC charging coupler. The purpose is to establish the contact definition, contact connection interface, structural dimensions, etc. of the AC charging coupler, thereby achieving the interchangeability of the AC charging coupler.
- Part 3: DC charging coupler. The purpose is to establish the contact definition, contact connection interface, structural dimensions, etc. of the DC charging coupler, thereby achieving the interchangeability of the DC charging coupler.
- Part 4: High-power DC charging coupler. The purpose is to establish the composition and function, interface and parameters, cable requirements, thermal management system, technical requirements, test methods, etc. of the high-power DC charging coupler, as well as the technical requirements, test methods and inspection rules of the adapter, etc., thereby realizing the compatibility and interchangeability of high-power DC charging coupler.

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