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**Terminology of electric vehicle charging and
discharging infrastructure**

电动汽车充放电设施术语

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Terminology of electric vehicle charging and discharging infrastructure

1 Scope

This standard specifies the terms and definitions, which are related to the charging and discharging infrastructures of electric vehicles.

This standard applies to electric vehicle charging and discharging infrastructures, which use conduction methods.

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) is applicable to this standard.

GB/T 19596-2017 Terminology of electric vehicles

3 Terms and definitions

3.1

Traction battery; propulsion battery

A battery, that provides energy for the power system of an electric vehicle.

[GB/T 19596-2017, Definition 3.3.1.1.1.1]

3.2

Charging and discharging infrastructure

Infrastructures that can provide charging and discharging services, at the same time, for power batteries of electric vehicle.

Note: It is mainly composed of electric vehicle charging and discharging equipments, related power supply equipment, monitoring equipment, other auxiliary equipment.

3.3

Charging and discharging operation and management system

A system, which realizes the data collection, data storage, statistical analysis, operation decision-making, business service, dispatching management of electric vehicle charging and discharging related businesses.

3.4

Charging and discharging equipment

An equipment, that is connected between an electric vehicle or a traction battery and the grid (or load), to achieve two-way flow of energy.

Note: Generally, it includes off-board charging and discharging equipments, on-board charging and discharging equipments, AC charging and discharging spots.

3.4.1

Off-board charging and discharging equipment

A dedicated equipment, which is installed outside of the electric vehicle; can realize the two-way conversion BETWEEN the AC power of the grid AND the DC power of the electric vehicle; adopts the conduction method for charging and discharging the traction battery of electric vehicles.

3.4.2

On-board charging and discharging equipment

A dedicated equipment, which is installed on the electric vehicle; can realize the two-way conversion BETWEEN the AC power of the grid AND the DC power of the electric vehicle; adopts the conduction method for charging and discharging the traction battery of electric vehicles.

3.4.3

AC charging and discharging spot

An equipment, which uses a conduction method to provide a two-way flow of energy, BETWEEN an electric vehicle with an on-board charging and discharging equipment AND the power grid.

3.5

Connection set for charging and discharging

The components that, when charging and discharging electric vehicles,

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