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

中华人民共和国国家标准

GB/T 29316-2012

**Power quality requirements for electric vehicle
charging/battery swap infrastructure
电动汽车充换电设施电能质量技术要求**

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China**

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Foreword

This Standard is drafted according to the rules stated in GB/T 1.1-2009.

This Standard was proposed and under the jurisdiction of China Electricity Council.

This Standard is drafted by: China Southern Power Grid Company, Southern Power Grid Academy of Science, State Grid Academy of Science, China Electric Power Research Institute, Guangdong Power Grid Academy of Science, Guangdong Power Design and Research Institute and Shenzhen Power Supply Planning and Design Institute Co., Ltd.

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Power quality requirements for electric vehicle charging/battery swap infrastructure

1 Scope

This standard specifies the relevant standards and testing requirements of power quality for charging facilities of electric vehicles.

This standard applies to the charging facilities of electric vehicles, including AC charging piles and charging stations.

2 Normative references

The articles contained in the following documents have become this standard when they are quoted herein. For the dated documents so quoted, all the modifications (Including all corrections) or revisions made thereafter shall be applicable to this Standard.

GB/T 12325 Power quality - Deviation of supply voltage

GB/T 14549 Quality of electric energy supply—Harmonics in public supply network

GB/T 15543 Power quality—Three-phase voltage unbalance

GB/T 19862 General requirements for monitoring equipments of power quality

GB/T 29317 Terminology of electric vehicle charging/battery swap infrastructure

GB/T 29772 General requirements of electric vehicle battery swap station

3 Terms and definitions

The terms and definitions defined by GB/T 12325, GB/T 14549, GB/T 15543, GB/T 19862, GB/T 29317 and GB/T 29772 apply to this document.

4 Supply Voltage Deviations

4.1 The supply voltage deviations for charging facilities of electric vehicles shall meet the requirements in Table 1.

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