

ICS 29.200

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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 28569-2012

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**Electric energy metering for electric vehicle AC  
charging spot**

**电动汽车交流充电桩电能计量**

**Issued on June 29, 2012**

**Implemented on November 01, 2012**

**Issued by General Administration of Quality Supervision, Inspection and  
Quarantine of the People's Republic of China**

**Standardization Administration of the People's Republic of China**

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## **Foreword**

This standard is drafted according to the regulations specified in GB/T1.1-2009.

This standard is proposed by the National Energy Administration of the People's Republic of China and the Ministry of Industry and Information Technology of the People's Republic of China.

This standard was under the jurisdiction of the China Electricity Council.

This Standard is drafted by: State Grid Corporation of China, China Electric Power Research Institute, State Grid Electric Power Research Institute, China Institute of Metrology, Yunnan Electric Power Research Institute, XJ Group Corporation, North China Grid Company Limited, Liaoning Electric Power Supply Co., Ltd.

The main drafters of this Standard are: Su Shengxin, Hu Jiangyi, Jia Junguo, Du Xingang, Wu Bin, Peng Chuning, Zeng Haiou, Xu Yinghui, Jiang Honglang, Liu Jianxin, Wang Lei, Cao Min, Yu Wenbin, Ye Xin, Ma Xiaoqi, Gao Bo, Chen Cheng, Lian Zhanwei, Zhou Lixia, Hao Xin.

# Electric energy metering for electric vehicle AC charging spot

## 1 Scope

This standard specifies the technical requirements of the electrical energy metering of electric vehicle AC charging spots and the configuration and installation requirements, test methods and inspection rules of electric energy metering device.

This standard applies to the electrical energy metering of AC charging spots.

## 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 15284 Particular requirements for multi-rate electricity meters

GB/T 17215.211-2006 Electricity metering equipment(a.c.)—General requirements, tests and test conditions—Part 11: Metering equipment (IEC 62052-11:2003)

GB/T 17215.321-2008 Electricity metering equipment (a.c.) - Particular requirements - Part 21: Static meters for active energy (classes 1 and 2) (IEC 62053-21-2003)

GB/T 17215.421-2008 Electricity metering equipment (a.c) - Tariff and load control - Part 21: Particular requirements for time switches (IEC 62054-21:2004)

DL/T 645 Multi-function watt-hour meter communication protocol

NB/T 33002 Specification for electric vehicle AC charging spot

## 3 Terms and definitions

The terms and definitions specified in GB/T 17215.211-2006 apply to the document.

## 4 Configuration requirements and installation location

a) The charging metering device of AC charging spots should be static multi-rate AC active electric energy meter (hereinafter referred to as the electric energy meter), electric energy meter uses direct access, and its electrical and technical parameters are as follows:

—Reference voltage ( $U_n$ ): 220V;

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