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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 29318-2012

**Electric energy metering for electric vehicle
off-board charger**

电动汽车非车载充电机电能计量

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Foreword

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

This Standard is the basic standard for electric vehicle charging metering, and should be used in combination with corresponding standard selected in accordance with characteristics of electric energy metering device used for charging facilities.

This Standard was proposed and centralized by China Electricity Council.

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

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Electric Energy Metering for Electric Vehicle Off-board Charger

1 Scope

This Standard specifies the configuration installation requirements, technical requirements, test methods and inspection rules of the DC electric energy metering device for the electric vehicle off-board charger (Hereinafter referred to as the charger), as well as the charger metering technical requirements.

This Standard applies to the electric energy metering of charger.

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 2423.1-2008 Environmental testing - Part 2: Test methods - Tests A: Cold (IEC 60068-2-1:2007,IDT)

GB/T 2423.2-2008 Environmental testing - Part 2: Test methods - Tests B: Dry heat (IEC 60068-2-2:2007,IDT)

GB/T 2423.4-2008 Environmental testing for electric and electronic products - Part 2: Test method - Test Db: Damp heat, cyclic (12h+12h cycle) (IEC 60068-2-30:2005,IDT)

GB/T 2423.57-2008 Environmental testing for electric and electronic products - Part 2: Tests - Test Ei: Shock - Shock response spectrum synthesis (IEC 60068-2-81:2003,IDT)

GB/T 2423.58-2008 Environmental testing for electric and electronic products - Part 2:Tests -Test Fi: Vibration - Mixed Mode (IEC 60068-2-80:2005,IDT)

GB/T 3928-2008 D. C. resistive volt ratio boxes (IEC 60524:1997,IDT)

GB 4208-2008 Degrees of protection provided by enclosure(IP code)

GB/T 5169.11-2006 Fire hazard testing for electric and electronic products - Part 11: Glowing/hot-wire based test methods - Glow-wire flammability test method for end-products (IEC 60695-2-11:2000,IDT)

GB/T 15284-2002 Particular requirements for multi-rate electricity meters

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