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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 2900.41-2008/IEC 60050(482): 2003

Replace GB/T 2900.11-1988 and GB/T 2900.62-2003

Electrotechnical terminology

Primary and secondary cells and batteries

电工术语

原电池和蓄电池

(IEC 60050(482): 2003, International Electrotechnical Vocabulary Part 482: Primary and secondary cells and batteries, IDT)

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China**

Contents

Foreword	1
1 Scope	1
2 Normative References	1
3 Terms and Definitions	1
3.1 Fundamental concepts	1
3.2 Parts, components, accessories, shape	5
3.3 Electrical properties and operation	12
3.4 Terms typically used for primary cells and batteries	21
3.5 Terms typically used for secondary cells and batteries	23
English Index	34

Foreword

This is Part 41 of GB/T 2900.

This Part is identical to IEC 60050(482): 2003 *International Electrotechnical Vocabulary Part 482: Primary and secondary cells and batteries*.

Numbering of terms in this Part is consistency with IEC 60050(482): 2003.

This Part will replace GB/T 2900.11-1988 *Terminology of (secondary) cell or battery* and GB/T 2900.62-2003 *Electrotechnical terminology--Primary cells and batteries*.

Comparison with GB/T 2900.11-1988 and GB/T 2900.62-2003, there are major changes on standard structural, some terms are deleted and some new terms are added.

This Standard is proposed and under the jurisdiction of National Technical Committee (SAC/TC 232) on Electrotechnical Terminology of Standardization Administration of China

The responsible drafting organizations are Mechanical Science Research Institute of Machine Productivity Center, Light Industry Chemical Power Research Center, Shenyang Battery Research Center, 18th Research Center of China Electronics Technology Group Corporation and Shanghai Fudan University.

The chief drafting staff of this standard includes Yang Fu, Lin Peiyun, Chen Yusong, Shen Jingping, Liu Haojie, Li Chengfang and Wang Yan.

This standard replaces the following historical editions issued:

GB/T 2900.11-1988 and GB/T 2900.62-2003.

Electrotechnical terminology

Primary and secondary cells and batteries

1 Scope

This part gives the general terminology used in the fields of primary and secondary cells and batteries.

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 (excluding corrections) or revisions made thereafter shall not be applicable to this Standard. For the undated documents so quoted, the latest editions shall be applicable to this Standard.

IEC 60027-1:1992 Letter symbols to be used in electrical technology - Part 1: General + Amendment 1:1997

IEC 60027-2:2000 Letter symbols to be used in electrical technology - Part 2: Telecommunications and electronics

IEC 60050-151:2001 International Electrotechnical Vocabulary – Part 151: Electrical and magnetic devices

3 Terms and Definitions

For the purposes of this document, the terms and definitions given in GB/T 28046.1 apply.

3.1 Fundamental concepts

482-01-01

cell

basic functional unit, consisting of an assembly of electrodes, electrolyte, container, terminals and usually separators, that is a source of electric energy obtained by direct conversion of chemical energy

NOTE See primary cell and secondary cell.

482-01-02

primary cell

cell which is not designed to be electrically recharged

482-01-03

secondary cell

cell which is designed to be electrically recharged

NOTE The recharge is accomplished by way of a reversible chemical reaction.

482-01-04

battery

one or more cells fitted with devices necessary for use, for example case, terminals, marking and protective devices

482-01-05

fuel cell

cell that can change chemical energy from continuously supplied reactants to electric energy by an electrochemical process

482-01-06

lithium cell

cell containing a non-aqueous electrolyte and a negative electrode of lithium or containing lithium

NOTE Depending on the design features chosen, a lithium cell may be primary or secondary.

482-01-07

molten salt cell

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