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

GB/T 18287-2013

Replacing GB/T 18287-2000

**General specification of lithium-ion cells and batteries for
mobile phone**

移动电话用锂离子蓄电池及蓄电池组总规范

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1 Scope

GB/T 18287-2013 is the Chinese national standard on general specification of lithium-ion cells and batteries for mobile phone, in the field of electrical engineering. The /T suffix

marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 19 July 2013 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 15 September 2013. Classification: ICS 29.220.01, CCS K82. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This Standard specifies the terms and definitions, requirements, test methods, quality assessment and marking, packaging, transportation and storage of lithium-ion cells and batteries used for mobile phones. This Standard is applicable to lithium-ion cells (hereinafter referred to as cells) and battery packs (hereinafter referred to as batteries) used for mobile phones. Other lithium-ion cells and batteries for mobile communication terminal products may implement this Standard as reference.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only the dated edition is applicable to this document. For undated references, the latest editions (including all amendments) are applicable to this document.

GB/T 191-2008 Graphic signs for packaging, storage and transportation

GB/T 2828.1 Sampling procedures for inspection by attributes. Part

1. Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection

GB/T 2829 Periodic inspection counting sampling program and table (for test with stability process)

GB/T 2900.41-2008 Electrotechnical terminology Primary and secondary cells and batteries

GB/T 17626.2 Electromagnetic compatibility Testing and measurement techniques; Electrostatic discharge immunity test ISO/IEC Guide

51 Safety aspects Guidelines for the inclusion of safety aspects in standards

3 Terms and definitions

Those defined in GB/T 2900.41-2008 and ISO/IEC Guide 51, and the following terms and definitions apply to this Standard.

3.1 Cell Basic unit device that directly transforms chemical energy to electric energy,

including electrode, membrane, electrolyte, shell, extremity and so on, and that is designed to be chargeable.

3.2 Battery Combination of one or more cells and accessories, which can be directly used as power supply.

3.3 Limited charge voltage As specified by the manufacturer, the voltage value of cells and batteries when it switches FROM constant voltage charging TO constant current charging.

3.4 Rated capacity Cell or battery capacity indicated by the manufacturer, which refers to the electric capacity of cell or battery provided under the ambient temperature of $23^{\circ}\text{C}\pm 2^{\circ}\text{C}$ when it is discharged to the cut-off voltage with 5h rate, represented by C5 in (Ah) or (mAh).

3.5 Reference test current Reference test current is expressed in ItA. It A=C

4.1 Appearance and Dimensions

4.1.1 Cell Cells' appearance and dimensions shall meet the manufacturer's requirements.

4.1.2 Battery The appearance and dimensions of the batteries shall meet the following requirements.

4.2 Electrical performance 4.2.1

0.2 ItA discharge Cell or battery is tested in accordance with the requirements in

5.3.2.2 and the discharge time shall not be shorter than 5h.

4.2.2 Rated discharge Cells or batteries with different rated capacity shall meet the following requirements.

4.2.3 High temperature discharge Cell or battery is tested in accordance with the requirements in

5.3.2.4 and the discharge time shall not be shorter than 5h.

4.2.4 Low temperature discharge Cell or battery is tested in accordance with the requirements in

5.3.2.5 and the discharge time shall not be shorter than 3h.

4.2.5 Charge retention capability and recovery capacity Cell or battery is tested in accordance with the requirements in

5.3.2.6 and the discharge time shall not be shorter than 4.25h. The discharge time of discharging again after being charged shall not be shorter than 4.5h.

4.2.6 Storage Performance Cell or battery is tested in accordance with the requirements in