

China Proposes National Standards for Batteries (Used in Toys) and Power Bank

On 12 January 2026, China's Ministry of Industry and Information Technology (MIIT) 工业和信息化部 proposed for public consultation for two national standards related to the following Battery Energy Storage Systems (BESS):

Chinese Title	English Title	Scope	Related Standard
电子电器用锂离子电池和电池组安全第4部分：玩具	Safety of lithium-ion cells and batteries used in electronic and electrical equipment—Part 4: Toys	Applies to lithium-ion batteries and battery packs used in toys, as well as similar products for children and infants. It excludes lithium-ion batteries and battery packs used in children's watches.	As 'Part 4' of <u>GB 31241-2022</u> (便携式电子产品用锂离子电池和电池组安全技术规范 Lithium-ion cells and batteries used in portable electronic equipment—Safety technical specification)
移动电源安全技术规范	Safety technical specifications for power bank	Applies to power banks with a rated input voltage of AC 220 V (includes input voltage range such as AC 100~240V) and/or DC ≤ 250 V, and with an output voltage of DC and/or AC.	-

Significant Requirements (Some Examples)

A. Lithium-ion Cells and Batteries Used in Toys

Markings

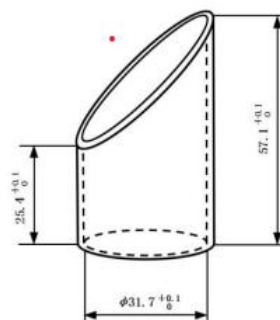
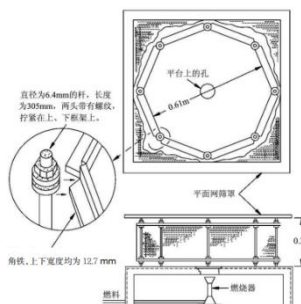
Product	Max. surface area S (cm ²)	Marking Requirements
Cells	$S \geq 4$	Rated capacity, code, model, and polarity must be on the cell body. For $4 \text{ cm}^2 < S < 10 \text{ cm}^2$, simplified coding may be used; other markings may appear on packaging / specifications.
	$S < 4$	Only polarity and simplified coding are required on cell body; other markings may be coded.
Batteries	$S \geq 10$	All markings must appear on the battery body. Markings such as model, rated capacity, rated energy, charge-limit voltage, nominal voltage, and manufacturer shall be displayed in Chinese and correct.
	$4 < S < 10$	Simplified markings are allowed; Chinese label words may be reduced where not misleading; simplified coding is allowed; manufacturer's identification may be coded.
	$S \leq 4$	Only polarity and simplified coding are required; other items may be coded.

Swallowing Gauge Test

The Small Part Cylinder is to be used according to GB/T 28164.2—2025.

Flammability Test

Combustion injection test (燃烧喷射试验) is to be performed.



B. Power Bank

Power Bank must first meet the requirements in GB 4943.1-2022 "音视频、信息技术和通信技术设备 第1部分：安全要求 (Audio/ video information and communication technology equipment—Part 1: Safety requirements)".



Markings and Warnings

The product body shall bear at least the following markings, which shall be clear and legible:

- a) Product name
- b) Model (include the leading term "Model:"), e.g. "Model: ABC", "Model: 123", "Model: A-123"
- c) Factory / Manufacturer
- d) Input/output port symbol markings marked near the ports
- e) Electrical ratings on the battery body
- f) Rated energy
- g) The recommended safe service life: in words "Recommended safe service life is x years" or using a label
- h) Production date in "Year.Month.Day" or "Year/Month/Day" format
- i) Necessary warning labels in Chinese, e.g.: "禁止拆解、撞击、挤压或投入火中" (Do not disassemble, impact, crush, or dispose of in fire)

建议安全使用年限

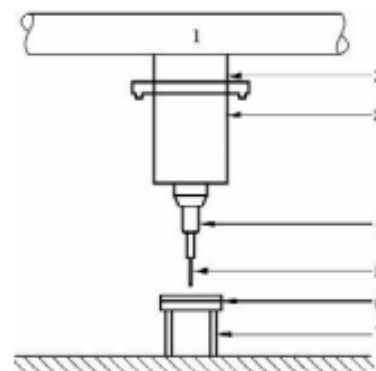


Puncture Test 隔膜穿刺强度

The specimen is flattened in the fixture and clamped, puncture at a rate of (100 ± 10) mm/min, and the puncture strength is calculated according to the following formula:

$$F_p \text{ (puncture strength in gF)} = F_0 / 0.0098$$

F_0 - the measured force when the specimen is punctured in N.



Consultation Period

13 January 2026 to 19 January 2026 for both standards

References

https://www.miit.gov.cn/zwgk/wjgs/art/2026/art_efae79f5b48648a399bd63de5f6f7ef9.html

https://www.miit.gov.cn/cms_files/filemanager/1226211233/attach/20261/37677be77b3c49d389e19937d3cd6387.zip

FOR MORE DETAILS, PLEASE CONTACT US:

Hong Kong: hktcd@stc.group

Guangdong: gdtcd@stc.group

Shanghai: shtcd@stc.group

Changzhou: czstc@stc.group

Vietnam: vnstc@stc.group

Japan: jpo@stc.group

U.S.A. : usenquiry@stc.group

Germany: grstc@stc.group

