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**Specifications of lithium ion cells and batteries used in
unmanned aerial vehicles**

无人驾驶航空器用锂离子电池和电池组规范

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Table of Contents

Preface	III
1 Scope	1
2 Normative References	1
3 Terms and Definitions	1
4 Test conditions	3
4.1 Applicability of the Test	3
4.2 Environmental Conditions	4
4.3 Parameter Measurement Tolerances	4
4.4 Temperature Measurement Methods	4
4.5 Test Charge/Discharge Procedure	4
4.6 Type Test Requirements	4
5 Signage and warning instructions 6.	6
5.1 Label	6
5.2 Warning Instructions	6
6 Battery and battery pack performance tests 7.	7
6.1 Initial Capacity	7
6.2 High temperature capacity	7
6.3 Low temperature capacity	7
6.4 times discharge rate	8
6.5 Charge retention capability	8
6.6 Restore Capacity	8
6.7 Cycle life	8
6.8 High-temperature storage	9
7 Battery safety	9
7.1 External Short Circuit	9
7.2 Overcharging	9
7.3 Forced Discharge	10
7.4 Dropped by	11
7.5 Extrusion	11
7.6 Heat Abuse	12
8 Battery pack safety	12
8.1 Electrostatic Discharge	12

8.2 Overvoltage charging protection	12
8.3 Overcurrent charging protection	13
8.4 External short-circuit protection	13
8.5 Reverse charging protection	13
8.6 Over-temperature protection	13
8.7 Overload	14
8.8 Low pressure	14
8.9 Temperature Cycle	14
8.10 Vibration	15
8.11 Flip	15
August 12th, a drop of 16. Reference	19

Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents". Drafting.

Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents.

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Lithium-ion battery and battery pack specifications

1 Scope

This document specifies the performance requirements and safety requirements for lithium-ion batteries and battery packs used in unmanned aerial vehicles (hereinafter referred to as "UAVs").

The question describes the corresponding experimental methods, but does not involve functional characteristics.

This document applies to lithium-ion batteries and battery packs used in drones.

2 Normative references

GB/T 2423.10

GB/T 2423.21

GB/T 2423.22

GB/T 17626.2

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 lithium-ion battery

A device that converts chemical energy into electrical energy by moving lithium ions between the positive and negative electrodes, and is designed to be rechargeable.

Note 1. This device typically includes electrodes, diaphragms, electrolytes, containers, and terminals.

Note 2. In this document, "battery" is referred to as "battery".

3.2 lithium-ion battery pack

An assembly consisting of any number of lithium-ion batteries, including protection circuitry, ready for use.

Note 1. Lithium-ion battery packs may also contain components or materials such as encapsulation materials, connectors, and protection devices.

Note 2. The protection circuit may be separate or in the charger or drone (including its accessories).

Note 3. In this document, it is referred to as "battery pack".

3.3 nominal voltage

A suitable approximation for identifying the voltage of a battery or battery pack.

3.4 Rated capacity

The capacity of the battery or battery pack as specified by the manufacturer.

Note. The unit is ampere-hour (Ah) or milliampere-hour (mAh).