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PEOPLE'S REPUBLIC OF CHINA**

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Lithium ion batteries for electric bicycles - Vocabulary

电动自行车用锂离子蓄电池词汇

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Table of Contents

- 1 Scope
- 2 Basic concepts
- 2.7 Leakage leakage Visible leakage of liquid electrolyte. [

Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009. Please note that some of the contents of this document may involve patents. Publication of this document The organization does not assume responsibility for identifying these patents. This standard was proposed by the China Light Industry Association. This standard is under the jurisdiction of the National Bicycle Standardization Technical Committee (SAC/TC155). This standard was drafted. Shanghai Delang Power Battery Co., Ltd., National Light Electric Vehicle and Battery Product Quality Supervision and Inspection Center, Zhejiang Chaowei Chuangyuan Industrial Co., Ltd., Zhejiang Tianneng Energy Technology Co., Ltd., Yadi Technology Group Co., Ltd. The main drafters of this standard. Bao Jun, Gao Xuefeng, Gu Zhengjian, Chen Yao, Zhang Jing, Kirk, Li Fulin. Lithium ion battery vocabulary for electric bicycle

1 Scope

China's national vocabulary for lithium ion batteries used in electric bicycles. It specifies the general vocabulary and applies to such batteries. Electric bicycles are a mass form of transport in China in a way they are nowhere else - hundreds of millions of them - and the shift from lead acid to lithium in their batteries changed the safety picture entirely. A lead acid battery that is abused leaks and stops working; a lithium battery that is abused can enter thermal runaway, and the fires that follow have occurred in stairwells, in corridors and in homes where the battery was taken indoors to charge. That is the context in which this vocabulary and the standards built on it were written. A common terminology for the cell, the module, the pack, the management system, the capacity, the state of charge and the protection functions is the precondition for regulating any of it, and for a product bought by consumers who will replace the battery from a market stall it is more necessary than usual.

This standard specifies the general vocabulary of lithium ion batteries for electric bicycles. This standard applies to lithium ion batteries for electric bicycles.

2 Basic concepts

2.1 Single cell cel A basic unit that directly converts chemical energy into electrical energy,

including electrodes, electrolytes, housings, and terminals, and is designed to be rechargeable. [

GB/T 31485-2015, definition 3.1]

2.2 Cylindrical battery cylindrical cell A cylindrically shaped unit cell having a total height equal to or greater than the diameter. [

GB/T 2900.41-2008, definition 482-02-39]

2.3 Square battery prismatic cell A parallelepiped-shaped unit cell having a right angle at each side.

2.4 Battery pack battery A combination of one or more batteries that are continuously used as a power source in accordance with voltage, size, extreme arrangement, capacity, and rate characteristics. [

GB/T 28164-2011, definition 1.3.8]

2.5 Lithium ion battery lithium ion battery A device containing lithium ions that directly converts chemical energy into electrical energy. The device includes an electrode, a diaphragm, an electrolyte, a container, and a terminal Etc., and is designed to be rechargeable. [

GB 31241-2014, definition 3.1]

2.6 Lithium-ion battery pack for electric bicycles lithium-ion batteries for electric bicycle A battery management system is composed of a plurality of lithium ion battery cells in accordance with voltage, size, extreme arrangement, capacity and rate characteristics. A device that provides electrical energy for electric bicycles.

2.7 Leakage leakage Visible leakage of liquid electrolyte. [

GB/T 28164-2011, definition 1.3.9]

2.8 Rupture rupture Mechanical damage to the battery casing or battery case due to internal or external factors, causing internal substances to be exposed or spilled, but not