



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

中华人民共和国汽车行业标准

QC/T 743-2006

Lithium-ion Batteries for Electric Vehicles

电动汽车用锂离子蓄电池

Issued on March 07, 2006

Implemented on August 01, 2006

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National Development and Reform Committee

NOTICE

No.18 2006

Eight-nine industry standards (number and title of standards see Annex) such as *Blanks for cemented carbide sealing ring*, etc. are approved by National Development and Reform Committee, where, forty non-ferrous metal industry standards, seventeen coal industry standards, six textile industry standards, seven building materials industry standards, one physical distribution industry standard, 18 auto industry standards, are hereby issued. Since August 1, 2006, above standards will be implemented.

Above non-ferrous metal industry standards, textile industry standards and physical distribution industry standards are published by China Standards Press, coal industry standards are published by Coal Industry Press, building material industry standards are published by China Building Materials Industry Press, auto industry standards are published by China Plan Publishing Company.

Attachment: Eighteen numbers and titles of auto industry standards

National Development and Reform Committee of the P. R. China

March 07, 2006

Attachment:**Eighteen Numbers and Titles of Auto Industry Standards**

S/N	Number of Standard	Title of Standard	Number of Standard to be Replaced
72	QC/T 741-2006	Ultracapacitors for Vehicles	
73	QC/T 742-2006	Lead-acid batteries for electric vehicles	
74	QC/T 743-2006	Lithium-ion batteries for electric vehicles	
75	QC/T 744-2006	Nickle-metal hydride batteries for electric vehicles	
76	QC/T 745-2006	Rubber pipelines for liquefied petroleum gas vehicles	
77	QC/T 746-2006	High pressure pipelines for compressed natural vehicles	
78	QC/T 33-2006	Test methods of viscous fan clutch for automotive engines	QC/T 33-1992
79	QC/T 747-2006	Specifications of viscous fan clutch for automotive engines	
80	QC/T 748-2006	The bench test methods of valve-valve holder intensify abrasion for automotive engines	
81	QC/T 471-2006	Specifications for auto diesel engines	QC/T 471-1999
82	QC/T 749-2006	Tree sprinkling tanker	
83	QC/T 750-2006	General specifications for cleaning tanker	
84	QC/T 54-2006	Street sprinklers	QC/T 29114-1993 QC/T 54-1993
85	QC/T 53-2006	Suction-type excrement tanker	QC/T 29113-1993 QC/T 53-1993
86	QC/T 51-2006	Sweeper truck	QC/T 29111-1993 QC/T 51-1993
87	QC/T 751-2006	Method of durability test for catalytic converter of motorcycle and moped	
88	QC/T 752-2006	General specifications for catalytic converters of motorcycles and mopeds	
89	QC/T 753-2006	Motorcycles and mopeds-The form format of technical parameters	

Foreword

Annex A and Annex B of this Standard is Normative.

This Standard was proposed by National Technical Committee on Road Vehicles of Standardization Administration of China.

This Standard was under the jurisdiction of National Technical Committee on Road Vehicles of Standardization Administration of China.

Main draft units of this Standard are National Development Center of High-technology Green Materials, North Auto Quality Supervision and Inspection Laboratory and Eighteenth Research Institute of CETC.

Main drafters of this Standard are Wu Feng, Wang Jiqiang, Wang Zidong, Xiao Chengwei, Mao Licai, Zhao Shuhong, Li Li, Chen Renjie, etc.

Lithium-ion Batteries for Electric Vehicles

1 Scope

This Standard specifies the requirements, testing methods, checking rules, symbols, package, transport and storage of Li-ion battery used in electric vehicles.

This Standard is applicable to lithium-ion batteries for electric vehicles which nominal voltage monomer is 3.6V and module $n \times 3.6V$ (n is number of battery).

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.

GB/T 2900.11 Terminology of (secondary) cell or battery [eqv IEC 60050(482): 2003]

3 Terms, Definitions and Symbols

3.1 Terms and Definitions

For the purposes of this Standard, the terms and definitions given in GB/T 2099.11 apply

3.1.1

high energy density battery

The battery characterized by high energy density and mainly used for high energy output.

3.1.2

high energy density ultracapacitors

The capacitor characterized by high energy density, mainly used for input and output of high energy.

3.1.3

charge recovery

The ratio between the discharge capacity and rated capacity of battery that has been stored for certain time and recharged under certain temperature.

3.1.4

end-of-charge current

The current of battery at the end of charge at constant current.

3.1.5

explosion

The shell of battery cracks with solid material rushing out from the battery and making a sound.

3.1.6

fire

Fire in the shell of battery.

3.1.7

discharge energy at I_3

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