



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

中华人民共和国汽车行业标准

QC/T 741-2006

Ultracapacitors for Vehicles
车用超级电容器

Issued on March 07, 2006

Implemented on August 01, 2006

Issued by the National Development and Reform Committee

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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

This Standard will be formulated based on GB/T 18332.1-2001 *Lead-acid batteries for electric road vehicles*, GB/Z 18333.1-2001 *Lithium-ion batteries for electric road vehicles*, GB/T 2900.11-1988 *Terminology of (secondary) cell or battery* as well as research institutes are engaged in Ultracapacitors and manual of tests and Criteria at home and abroad.

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 Shanghai Aowei Technology Development Co., Ltd and Eighteenth Research Institute of CETC.

Main drafters of this Standard are Wang Guoqing, Xiao Chengwei, Zhang Qin, Wang Ran, Miao Xiaoli, Gu Guoxing, Chen Quanshi, Wang Jinglin.

Ultracapacitors for Vehicles

1 Scope

This Standard specifies the requirement, test method, inspecting-rules, symbols, package, transporting and storage of ultracapacitors in electric vehicles

This Standard is applicable to starting, ignitions, and traction and ultra capacitors for lighting of electric vehicles. (hereinafter as capacitor).

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 486: 1986)

3 Terms, Definitions and Symbols

3.1 Terms and Definitions

In addition to the terms of GB/T 2900.11 are applied, following terms and definitions of this Standard also be added.

3.1.1

ultracapacitors

The ultracapacitor is one kind of electrochemical power storage device between common capacitor and battery.

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

high power density ultracapacitor

The capacitor characterized by high power, mainly used for input and output of instant high power.

3.1.4

rated voltage

The maximum working voltage of capacitor.

3.1.5

capacitance

The capacitance of capacitor is the ratio between the discharge quantity and discharge potential discharge the capacitor at constant current.

3.1.6

energy

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