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**Electrical characteristic test methods of
electric double layer capacitors for use in
hybrid electric vehicles**

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Foreword

This translation has been made based on the original Japanese Industrial Standard established by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee according to the proposal of establishing a Japanese Industrial Standard submitted from Japan Automobile Research Institute (JARI) with a draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law.

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Electrical characteristic test methods of electric double layer capacitors for use in hybrid electric vehicles

Introduction

There are some Japanese Industrial Standards for fixed electric double layer capacitors used in electronic equipment; however, their contents are not applicable to electric double layer capacitors used in hybrid electric vehicles for which rapid charge-discharge specifications are required. This Japanese Industrial Standard has been established in response to the need for a standard for test methods which specifies the electrical characteristics of such capacitors.

No International Standard corresponding to this Standard has been established at this point.

1 Scope

This Standard specifies the test methods for electrical characteristics of a unit cell of electric double layer capacitor (hereafter referred to as "capacitor") used in peak-power assistance for hybrid electric vehicles.

2 Normative reference

The following standard contains provisions which, through reference in this text, constitutes provisions of this Standard. For the standard indicated below, only the edition of the indicated year shall be applied and any revisions (including amendments) made thereafter shall not be applied.

JIS C 60068-1 : 1993 *Environmental testing Part 1 : General and guidance*

NOTE : Corresponding International Standard : IEC 60068-1 : 1988 *Environmental testing. Part 1 : General and guidance* (IDT)

3 Terms and definitions

For the purpose of this Standard, the following terms and definitions apply.

3.1 reference temperature

temperature (°C) of 25 °C ± 2 °C specified in 5.2 of JIS C 60068-1 : 1993 which shall be referred at tests

3.2 ambient temperature

temperature (°C) of surroundings in which capacitors are placed