

# STANDARD

Translated and Published by Japanese Standards Association

## JIS C 8715-1:2012

### (BAJ/JSA)

Secondary lithium cells and batteries for use in industrial applications — Part 1: Tests and requirements of performance

ICS 29.220.99 Reference number : JIS C 8715-1 : 2012 (E)

Date of Establishment: 2012-11-20

Date of Public Notice in Official Gazette: 2012-11-20

Investigated by: Japanese Industrial Standards Committee

Standards Board

Technical Committee on Electricity Technology

JIS C 8715-1: 2012, First English edition published in 2014-06

Translated and published by: Japanese Standards Association Mita MT Building, 3-13-12, Mita, Minato-ku, Tokyo, 108-0073 JAPAN

> In the event of any doubts arising as to the contents, the original JIS is to be the final authority.

© JSA 2014

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

Printed in Japan

KK/HN

#### Contents

#### Page

1	Scope ·····1
2	Normative references ······1
3	Terms and definitions
$4 \\ 4.1 \\ 4.2 \\ 4.3 \\ 4.4$	Classification 4 Classification according to discharge type 4 Classification according to application 5 Classification according to temperature class of low temperature 5 Classification according to temperature class of high temperature 5
5 5.1 5.2 5.3 5.4 5.5 5.6 5.7 5.8	Requirements of performance5General matters5Discharge performance6Low-temperature discharge performance6High-rate discharge performance6Capacity retention rate and capacity recovery rate7Internal resistance7Charge-discharge cycle durability7Standby state retaining durability7
6	Requirements of safety
7 7.1 7.2	Shapes and materials of cell8Shapes8Materials8
8 8.1 8.2 8.3 8.4 8.5 8.6 8.7	Test methods8General matters8Measurement tolerances on parameters9Charging procedure for testing9Discharge performance test10Capacity retention rate and capacity recovery rate test11Internal resistance test11Durability test12
9 9.1 9.2	Type test14General matters14Test items and sequence of tests14
10 10.1	Designation ······16 Designation of cell ······16 Designation of terminals ·····18

#### C 8715-1 : 2012

10.3	Designation of battery system
10.4	Notation of configuration of battery system19
11	Marking

#### 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 for establishment of Japanese Industrial Standard submitted by Battery Association of Japan (BAJ)/ Japanese Standards Association (JSA) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law.

This **JIS** document is protected by the Copyright Law.

Attention is drawn to the possibility that some parts of this Standard may conflict with patent rights, applications for a patent after opening to the public or utility model rights. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying any of such patent rights, applications for a patent after opening to the public or utility model rights.

**JIS C 8715** series consists of the following two parts under the general title "Secondary lithium cells and batteries for use in industrial applications —":

Part 1 : Tests and requirements of performance Part 2 : Tests and requirements of safety