

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**12 V lithium-ion secondary batteries for automotive starting, lighting, ignition (SLI) applications and auxiliary purposes –
Part 1: General requirements and methods of test**

**Accumulateur ion-lithium 12 V pour les applications de démarrage, d'éclairage, d'allumage (SLI) et les utilisations auxiliaires des véhicules automobiles –
Partie 1 : Exigences et méthodes d'essai générales**



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CONTENTS

FOREWORD.....	3
1 Scope.....	5
2 Normative references	5
3 Terms, definitions and symbols.....	6
3.1 Terms and definitions.....	6
3.2 Symbols.....	7
4 Parameter measurement tolerances	7
5 Marking and designation.....	7
6 Electrical tests.....	8
6.1 General.....	8
6.2 Charging procedure for test purposes	8
6.3 Capacity	9
6.3.1 General	9
6.3.2 Method	9
6.3.3 Acceptance criteria	9
6.4 Discharge performance at low temperature	9
6.4.1 General	9
6.4.2 Method	9
6.4.3 Acceptance criteria	10
6.5 Charge performance at 0 °C and -18 °C	10
6.5.1 General	10
6.5.2 Method	10
6.5.3 Acceptance criteria	10
6.6 Charge retention	11
6.6.1 General	11
6.6.2 Method	11
6.6.3 Acceptance criteria	11
6.7 Endurance	11
6.7.1 Endurance in cycles.....	11
6.7.2 Floating-calendar life test	13
7 Type test conditions	14
7.1 General.....	14
7.2 Test items	14
Bibliography.....	15
Table 1 – Type tests	14

INTERNATIONAL ELECTROTECHNICAL COMMISSION

12 V LITHIUM-ION SECONDARY BATTERIES FOR AUTOMOTIVE STARTING, LIGHTING, IGNITION (SLI) APPLICATIONS AND AUXILIARY PURPOSES –

Part 1: General requirements and methods of test

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IEC 63118-1 has been prepared by IEC technical committee 21: Secondary cells and batteries. It is an International Standard.

The text of this International Standard is based on the following documents:

Draft	Report on voting
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Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

A list of all parts in the IEC 63118 series, published under the general title *12 V lithium-ion secondary batteries for automotive starting, lighting, ignition (SLI) applications and auxiliary purposes*, can be found on the IEC website.

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12 V LITHIUM-ION SECONDARY BATTERIES FOR AUTOMOTIVE STARTING, LIGHTING, IGNITION (SLI) APPLICATIONS AND AUXILIARY PURPOSES –

Part 1: General requirements and methods of test

1 Scope

This part of IEC 63118 specifies the general tests and requirements for the performance of lithium secondary batteries with a nominal voltage of 12 V permanently installed in road vehicles not for propulsion. The replacement of secondary batteries permanently installed in road vehicles not for propulsion is covered by this document.

The following are typical applications that utilize the batteries under the scope of this document: power source for the starting of internal combustion engines, lighting, stop and start function, on-board auxiliary equipment and energy absorption for regeneration from braking.

The batteries primarily used for propulsion of electric vehicles (EV) including battery electric vehicles (BEV), hybrid electric vehicles (HEV), and plug-in hybrid electric vehicles (PHEV) are not covered by this document.

This document includes:

- electrical characteristics tests methods and requirements;
- a life duration tests method.

This document does not include:

- dimensions;
- the system communication protocol;
- safety aspects.

NOTE The safety aspects of the batteries are covered by IEC 63057.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60050-482, *International Electrotechnical Vocabulary (IEV) – Part 482: Primary and secondary cells and batteries*, available at <http://www.electropedia.org>

IEC 62902, *Secondary cells and batteries – Marking symbols for identification of their chemistry*

ISO/IEC Guide 51, *Safety aspects – Guidelines for their inclusion in standards*