
**Vmesnik za polnjenje baterij majhnih ročnih večpredstavnostnih naprav - 2. del:
Preskušanje skladnosti 2-milimetrskih cevastih vmesnikov (IEC 62637-2:2011)**

Battery charging interface for small hand held multimedia devices - Part 2: 2mm barrel type interface conformance testing (IEC 62637-2:2011)

Batterie-Ladeschnittstelle für kleine tragbare Multimedia-Geräte - Teil 2:
Konformitätsprüfung von Schnittstellen mit 2-mm-Zylinder (IEC 62637-2:2011)

Interface de charge de batterie pour petits appareils multimédia portables – Partie 2:
Essai de conformité de l'interface de type cylindrique 2 mm (CEI 62637-2:2011)

<https://standards.iteh.ai/catalog/standards/sist/688074fb-3f1e-444e-a467-9b9f9c192424/sist-en-62637-2-2011>

Ta slovenski standard je istoveten z: EN 62637-2:2011

ICS:

29.200	Usmerniki. Pretvorniki. Stabilizirano električno napajanje	Rectifiers. Convertors. Stabilized power supply
33.160.99	Druga avdio, video in avdiovizuelna oprema	Other audio, video and audiovisual equipment

SIST EN 62637-2:2011**en**

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN 62637-2:2011](https://standards.iteh.ai/catalog/standards/sist/688074fb-3fle-444e-a467-9b9f9c192424/sist-en-62637-2-2011)

<https://standards.iteh.ai/catalog/standards/sist/688074fb-3fle-444e-a467-9b9f9c192424/sist-en-62637-2-2011>

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 62637-2

May 2011

ICS 33.160.99; 97.180

English version

**Battery charging interface for small handheld multimedia devices -
Part 2: 2 mm barrel type interface conformance testing
(IEC 62637-2:2011)**

Interface de charge de batterie pour petits appareils multimédia portables – Partie 2: Essai de conformité de l'interface de type cylindrique 2 mm (CEI 62637-2:2011)

Batterie-Ladeschnittstelle für kleine tragbare Multimedia-Geräte - Teil 2: Konformitätsprüfung von Schnittstellen mit 2-mm-Zylinder (IEC 62637-2:2011)

iTeh STANDARD PREVIEW

This European Standard was approved by CENELEC on 2011-05-04. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

Management Centre: Avenue Marnix 17, B - 1000 Brussels

Foreword

The text of document 100/1674/CDV, future edition 1 of IEC 62637-2, prepared by technical area 1, Terminals for audio, video and data services and contents, of IEC TC 100, Audio, video and multimedia systems and equipment, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 62637-2 on 2011-05-04.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN and CENELEC shall not be held responsible for identifying any or all such patent rights.

The following dates were fixed:

- latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2012-02-04
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2014-05-04

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 62637-2:2011 was approved by CENELEC as a European Standard without any modification. (standards.iteh.ai)

SIST EN 62637-2:2011

<https://standards.iteh.ai/catalog/standards/sist/688074fb-3fle-444e-a467-9b9f9c192424/sist-en-62637-2-2011>

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

The following referenced documents are indispensable for the application 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.

NOTE When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 62637-1	2011	Battery charging interface for small hand held multimedia devices - Part 1: 2mm barrel interface specification	EN 62637-1	2011

iTeh STANDARD PREVIEW (standards.iteh.ai)

[SIST EN 62637-2:2011](https://standards.iteh.ai/catalog/standards/sist/688074fb-3fle-444e-a467-9b9f9c192424/sist-en-62637-2-2011)

<https://standards.iteh.ai/catalog/standards/sist/688074fb-3fle-444e-a467-9b9f9c192424/sist-en-62637-2-2011>

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN 62637-2:2011](https://standards.iteh.ai/catalog/standards/sist/688074fb-3fle-444e-a467-9b9f9c192424/sist-en-62637-2-2011)

<https://standards.iteh.ai/catalog/standards/sist/688074fb-3fle-444e-a467-9b9f9c192424/sist-en-62637-2-2011>



INTERNATIONAL STANDARD

Battery charging interface for small handheld multimedia devices –
Part 2: 2 mm barrel type interface conformance testing

STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 62637-2:2011
<https://standards.iteh.ai/catalog/standards/sist/688074fb-3f1e-444e-a467-9b9f9c192424/sist-en-62637-2-2011>



THIS PUBLICATION IS COPYRIGHT PROTECTED

Copyright © 2011 IEC, Geneva, Switzerland

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 either IEC or IEC's member National Committee in the country of the requester.

If you have any questions about IEC copyright or have an enquiry about obtaining additional rights to this publication, please contact the address below or your local IEC member National Committee for further information.

IEC Central Office
3, rue de Varembe
CH-1211 Geneva 20
Switzerland
Email: inmail@iec.ch
Web: www.iec.ch

About the IEC

The International Electrotechnical Commission (IEC) is the leading global organization that prepares and publishes International Standards for all electrical, electronic and related technologies.

About IEC publications

The technical content of IEC publications is kept under constant review by the IEC. Please make sure that you have the latest edition, a corrigenda or an amendment might have been published.

- Catalogue of IEC publications: www.iec.ch/searchpub

The IEC on-line Catalogue enables you to search by a variety of criteria (reference number, text, technical committee,...). It also gives information on projects, withdrawn and replaced publications.

- IEC Just Published: www.iec.ch/online_news/justpub

Stay up to date on all new IEC publications. Just Published details twice a month all new publications released. Available on-line and also by email.

- Electropedia: www.electropedia.org

The world's leading online dictionary of electronic and electrical terms containing more than 20 000 terms and definitions in English and French, with equivalent terms in additional languages. Also known as the International Electrotechnical Vocabulary online.

- Customer Service Centre: www.iec.ch/webstore/custserv

If you wish to give us your feedback on this publication or need further assistance, please visit the Customer Service Centre FAQ or contact us:

Email: csc@iec.ch
Tel.: +41 22 919 02 11
Fax: +41 22 919 03 00

PREVIEW
 (standards.iteh.ai)
 SIST EN 62637-2:2011
<https://standards.iteh.ai/catalog/standards/sist/688074fb-3f1e-444e-a467->



IEC 62637-2

Edition 1.0 2011-03

INTERNATIONAL STANDARD

**Battery charging interface for small handheld multimedia devices –
Part 2: 2 mm barrel type interface conformance testing**

STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 62637-2:2011
<https://standards.iteh.ai/catalog/standards/sist/688074fb-3f1e-444e-a467-9b99c192424/sist-en-62637-2-2011>

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

PRICE CODE

R

ICS 33.160.99; 97.180

ISBN 978-2-88912-396-4

CONTENTS

FOREWORD.....	4
1 Scope.....	6
2 Normative references	6
3 Abbreviations and symbols.....	6
4 Test conditions for the 2 mm barrel charging interface.....	7
4.1 General test conditions.....	7
4.2 Temperature.....	7
4.3 Voltage.....	7
5 Electrical testing of 2 mm barrel type chargers	7
5.1 Maximum transient voltage and current values	7
5.1.1 Test purpose	7
5.1.2 Requirements	7
5.1.3 Test equipment.....	8
5.1.4 Test method	8
5.2 Maximum output ripple voltage	9
5.2.1 Test purpose	9
5.2.2 Requirements	9
5.2.3 Test equipment.....	10
5.2.4 Test method	10
5.3 High-frequency voltage components at the charger output	11
5.3.1 Test purpose	11
5.3.2 Requirements	11
5.3.3 Equipment	11
5.3.4 Test method	11
5.4 Feel current of AC chargers	12
5.4.1 Test purpose	12
5.4.2 Requirements	12
5.4.3 Equipment	12
5.4.4 Test method	12
5.5 Charging voltage / current window.....	13
5.5.1 Test purpose	13
5.5.2 Requirements	13
5.5.3 Equipment	14
5.5.4 Test method	14
5.6 Current linearity for chargers	15
5.6.1 Test purpose	15
5.6.2 Requirements	15
5.6.3 Equipment	15
5.6.4 Test method	16
6 Electrical testing of 2 mm barrel interface accessories	16
6.1 General.....	16
6.2 Charging voltage / current window.....	16
6.2.1 Test purpose	16
6.2.2 Requirements	16
6.2.3 Equipment	16
6.2.4 Test method	16

6.3	Accessory power consumption during device booting	17
6.3.1	Test purpose	17
6.3.2	Requirements	17
6.3.3	Equipment	17
6.3.4	Test method	17
Figure 1	– Maximum duration of charging current overshoot and output voltage undershoot	9
Figure 2	– Maximum peak-to-peak ripple voltage	10
Figure 3	– Maximum high frequency output voltage components	11
Figure 4	– Test set up for high frequency voltage components	12
Figure 5	– Test set up	13
Figure 6	– Charging current/voltage window for 2 mm barrel chargers	14
Figure 7	– Current linearity specification	15
Figure 8	– Maximum current consumption in accessory during boot-up	17
Table 1	– Maximum ripple voltage in different frequency ranges	9
Table 2	– Maximum high-frequency voltage components at the charger output	11

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN 62637-2:2011

<https://standards.iteh.ai/catalog/standards/sist/688074fb-3fle-444e-a467-9b99c192424/sist-en-62637-2-2011>