



**SLOVENSKI STANDARD**  
**SIST-TS CEN ISO/TS 23625:2022**

**01-september-2022**

---

**Mala plovila - Litij-ionske baterije (ISO/TS 23625:2021)**

Small craft - Lithium-ion batteries (ISO/TS 23625:2021)

iTeh STANDARD PREVIEW  
(standards.iteh.ai)

Petits navires - Batteries lithium-ion (ISO/TS 23625:2021)

**Ta slovenski standard je istoveten z: CEN ISO/TS 23625:2022**

<https://standards.iteh.ai/catalog/standards/sist/0e9e989d-3d57-49a0-a8e7-ae0e07aa8529/sist-ts-cen-iso-ts-23625-2022>

---

**ICS:**

47.080

Čolni

Small craft

**SIST-TS CEN ISO/TS 23625:2022**

**en,fr,de**



TECHNICAL SPECIFICATION  
SPÉCIFICATION TECHNIQUE  
TECHNISCHE SPEZIFIKATION

**CEN ISO/TS 23625**

August 2022

ICS 47.080

English Version

**Small craft - Lithium-ion batteries (ISO/TS 23625:2021)**

Petits navires - Batteries lithium-ion (ISO/TS  
23625:2021)

This Technical Specification (CEN/TS) was approved by CEN on 24 July 2022 for provisional application.

The period of validity of this CEN/TS is limited initially to three years. After two years the members of CEN will be requested to submit their comments, particularly on the question whether the CEN/TS can be converted into a European Standard.

CEN members are required to announce the existence of this CEN/TS in the same way as for an EN and to make the CEN/TS available promptly at national level in an appropriate form. It is permissible to keep conflicting national standards in force (in parallel to the CEN/TS) until the final decision about the possible conversion of the CEN/TS into an EN is reached.

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

(standards.iteh.ai)

[SIST-TS CEN ISO/TS 23625:2022](https://standards.iteh.ai/catalog/standards/sist/0e0e989d-3d57-49a0-a8e7-ac0e07aa8529/sist-ts-cen-iso-ts-23625-2022)

<https://standards.iteh.ai/catalog/standards/sist/0e0e989d-3d57-49a0-a8e7-ac0e07aa8529/sist-ts-cen-iso-ts-23625-2022>



EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

<b>Contents</b>	<b>Page</b>
<b>European foreword.....</b>	<b>3</b>

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

[SIST-TS CEN ISO/TS 23625:2022](https://standards.iteh.ai/catalog/standards/sist/0e07aa8529/sist-ts-cen-iso-ts-23625-2022)

<https://standards.iteh.ai/catalog/standards/sist/0e07aa8529/sist-ts-cen-iso-ts-23625-2022>

## European foreword

The text of ISO/TS 23625:2021 has been prepared by Technical Committee ISO/TC 188 "Small craft" of the International Organization for Standardization (ISO) and has been taken over as CEN ISO/TS 23625:2022 by Technical Committee CEN/TC 464 "Small Craft" the secretariat of which is held by SIS.

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

Any feedback and questions on this document should be directed to the users' national standards body. A complete listing of these bodies can be found on the CEN website.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

## Endorsement notice

The text of ISO/TS 23625:2021 has been approved by CEN as CEN ISO/TS 23625:2022 without any modification.

[SIST-TS CEN ISO/TS 23625:2022](https://standards.iteh.ai/catalog/standards/sist/0e0e989d-3d57-49a0-a8e7-ac0e07aa8529/sist-ts-cen-iso-ts-23625-2022)

<https://standards.iteh.ai/catalog/standards/sist/0e0e989d-3d57-49a0-a8e7-ac0e07aa8529/sist-ts-cen-iso-ts-23625-2022>



# TECHNICAL SPECIFICATION

# ISO/TS 23625

First edition  
2021-03

---

---

## Small craft — Lithium-ion batteries

iTeh STANDARD PREVIEW  
(standards.iteh.ai)

[SIST-TS CEN ISO/TS 23625:2022](https://standards.iteh.ai/catalog/standards/sist/0e0e989d-3d57-49a0-a8e7-ae0e07aa8529/sist-ts-cen-iso-ts-23625-2022)

<https://standards.iteh.ai/catalog/standards/sist/0e0e989d-3d57-49a0-a8e7-ae0e07aa8529/sist-ts-cen-iso-ts-23625-2022>



Reference number  
ISO/TS 23625:2021(E)

© ISO 2021

# iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST-TS CEN ISO/TS 23625:2022

<https://standards.iteh.ai/catalog/standards/sist/0e0e989d-3d57-49a0-a8e7-ac0e07aa8529/sist-ts-cen-iso-ts-23625-2022>



## **COPYRIGHT PROTECTED DOCUMENT**

© ISO 2021

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office  
CP 401 • Ch. de Blandonnet 8  
CH-1214 Vernier, Geneva  
Phone: +41 22 749 01 11  
Email: [copyright@iso.org](mailto:copyright@iso.org)  
Website: [www.iso.org](http://www.iso.org)

Published in Switzerland



# Contents

	Page
Foreword .....	iv
<b>1 Scope .....</b>	<b>1</b>
<b>2 Normative references .....</b>	<b>1</b>
<b>3 Terms and definitions .....</b>	<b>1</b>
<b>4 System design requirements .....</b>	<b>3</b>
<b>5 Safe operating limits .....</b>	<b>4</b>
<b>6 General lithium-ion battery installations .....</b>	<b>4</b>
<b>7 Fire protection and cell venting .....</b>	<b>5</b>
<b>8 Battery management system and testing .....</b>	<b>6</b>
<b>9 Manufacturer's safety information and operator's manual .....</b>	<b>7</b>
<b>Annex A (informative) Battery thermal runaway .....</b>	<b>8</b>
<b>Bibliography .....</b>	<b>9</b>

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

[SIST-TS CEN ISO/TS 23625:2022](https://standards.iteh.ai/catalog/standards/sist/0e0e989d-3d57-49a0-a8e7-ae0e07aa8529/sist-ts-cen-iso-ts-23625-2022)

<https://standards.iteh.ai/catalog/standards/sist/0e0e989d-3d57-49a0-a8e7-ae0e07aa8529/sist-ts-cen-iso-ts-23625-2022>

## ISO/TS 23625:2021(E)

### Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see [www.iso.org/patents](http://www.iso.org/patents)).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

This document was prepared by Technical Committee ISO/TC 188, *Small craft*.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at [www.iso.org/members.html](http://www.iso.org/members.html).