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

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

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European foreword

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Endorsement notice

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

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Foreword

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

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Small craft — Lithium-ion batteries

1 Scope

This document provides requirements and recommendations for the selection and installation of lithium-ion batteries for boats. It applies to lithium-ion batteries and to battery systems with a capacity greater than 600 Wh, installed on small craft for providing power for general electrical loads and/or to electric propulsion systems. It is primarily intended for manufacturers and battery installers.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at https://www.iso.org/obp
- IEC Electropedia: available at http://www.electropedia.org/

3.1

ampere interrupt capacity

AIC

maximum current a circuit breaker or fuse is rated to safely interrupt at a specific voltage

3.2

battery

collection of *cells* (3.7) wired in series (or series/parallel) and constituting a single physical unit

3.3

battery bank

set of batteries (3.2) electrically connected (parallel/series) to increase capacity and or voltage

3.4

battery capacity

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capacity of the *battery* (3.2), expressed in ampere-hours (Ah) at a nominal voltage or in watt hours (Wh), from the manufacturer's specified fully charged to discharged voltage levels

Note 1 to entry: Ah capacity rating at a given discharge rate or time.

3.5

battery management system

BMS

system designed to protect a lithium-ion battery (3.2) from potentially damaging events, such as overcharging or overdischarging and high and low temperatures

3.6

battery system

battery (3.2) or batteries and all ancillary components