



Marine &amp; Offshore

Certificate number: 79822/A0 BV

File number: ---

Product code: 6004H

*This certificate is not valid when presented without the full attached schedule composed of 7 sections*

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## TYPE APPROVAL CERTIFICATE

*This certificate is issued to*

**LALIZAS HELLAS S.A.**

Piraeus, - GREECE

*for the type of product*

**LIFEJACKET LIGHTS**

ALKALITE II

(Code 72348)

### Requirements:

SOLAS 74 Convention, as amended, Regulations III/4, III/7, III/22, III/26, III/32, III/34, X/3

IMO Res. MSC.48(66) -(LSA Code)- amended by MSC.207(81), MSC.218(82), MSC.272(85), MSC.293(87), MSC.320(89), MSC.368(93), MSC.425(98), MSC.459(101) and MSC.485(103) I, II

IMO Res. MSC.36(63) -(1994 HSC Code)- as amended, 8

IMO Res. MSC.97(73) -(2000 HSC Code)- as amended, 8

IMO Res. MSC.81(70) amended by MSC.200(80), MSC.226(82), MSC.274(85), MSC.295(87), MSC.321(89), MSC.323(89), MSC.378(93), MSC.427(98), MSC.472(101) and MSC.488(103)

IEC 60945 Ed. 4.0 (2002) + /Cor1 (2008)

ISO 24408:2005

IMO MSC.1/Circ.1628-Rev.3

### Transport Canada Requirements:

Transport Canada Life Saving Equipment Regulations, TP14475 and TP14612

*This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.*

**This certificate will expire on: 09 May 2030**

### For Bureau Veritas Marine & Offshore,

At BV PIRAEUS, on 09 May 2025,

Spyros KONTOULIS

***This certificate was created electronically and is valid without signature***



This certificate is recognized by Transport Canada

This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site [www.veristar.com](http://www.veristar.com). Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

## THE SCHEDULE OF APPROVAL

### 1. PRODUCT DESCRIPTION:

<b>Trademark</b>	LALIZAS
<b>Type</b>	ALKALITE II

<b>Main body Dimension</b>	<b>Weight</b>	<b>Battery</b>	<b>Activation</b>	<b>Light type</b>
55.4*26.8*18.4mm	36 g	Alkaline	Water/Manual	Flashing

*As indicated in the technical documentation submitted by the Applicant.*

### 2. DOCUMENTS AND DRAWINGS:

- Technical Folder

Number	Title	Version	Date
72348	ALKALITE II - 72348	D	13/03/2018
LR03 Alkaline battery-Annex	The capacity change of Changhong's LR03 alkaline battery	A	08/12/2023
72348&72349&72350	Description of the electrical short protection	A	06/03/2018

- Technical Drawings

Number	Title	Version	Date
7234800	ALKALITE II	B	13/03/2018
7234801	Cover-72348	B	13/03/2018
7234802	Base-72348	A	13/03/2018
7234803	Buckle-72348	A	13/03/2018
7234804	Seal Foam	B	13/03/2018
7234805	PCB-72348	D	13/03/2018
7234806	LR03-Battery	A	13/03/2018
7234807	Battery Flake	B	13/03/2018

- Markings & Manual(s) for installation use and maintenance:

Number	Title	Version	Date
	72348 (MED Marking)	F	25/04/2025
17.24.09.2	Lifejacket light assembly instructions on ISO & SOLAS inflatable lifejackets	A	30/01/2025
17.24.09.2	Instructions assemblage de la lampe flash sur les gilets de sauvetage gonflables ISO et SOLAS	B	04/02/2025
28.25.1.3	Installing 72348 LALIZAS Lifejacket LED Flashing Light "Alkalite II" on ISO & SOLAS Foam Lifejackets	A	30/01/2025
28.25.1.3	Instructions d'assemblage de la lampe flash 72348 "Alkalite II" sur les gilets de sauvetage en mousse ISO et SOLAS.	B	04/02/2025

*No departure from these documents is permitted without the prior consent of the Society.*

### 3. TEST REPORTS:

#### TYPE TESTS

Number	Title	Revision	Date
117-323-117_A	Chromaticity Test	Rev.1	23/10/2017
118-323-036	Luminous Intensity Test	---	18/03/2018
117-22230.A	Type Test	Rev.1	07/08/2018
123-323-154	Luminous Intensity Test <i>Linked to test reports 117-323-117_A rev.1</i>	---	16/11/2023
123-323-154	Luminous Intensity Test <i>Linked to test reports 117-22230.a rev1 / 117-22230.B / 117-323-117_A rev.1 / 117-323-117_B</i>	Rev.1	30/11/2023
CL/PCLB2/7/2024	Drop Test	Edition 1	26/02/2024

**4. APPLICATION / LIMITATION:**

- The scope of the appraisal made by Bureau Veritas to issue this certificate is strictly restricted to the relevant requirements stated on the front page of this certificate.
- Each position indicating light shall be supplied with its instructions for use, inspections and on-board maintenance complying with the regulations stated on the front page of this certificate.
- The equipment shall be replaced prior the date of expiry which is marked on the signal casing.
- The certificate is limited to the flashing light mode only. No compliance of the light in its steady mode has been demonstrated.

**5. PRODUCTION SURVEY REQUIREMENTS:**

**5.1** - The Position Indicating lights are to be supplied by **LALIZAS HELLAS S.A.** in compliance with the type described in this certificate.

**5.2** - This type of product is within the category HBV of Bureau Veritas Rule Note NR320 and as such does not require a BV product certificate.

**5.3** - **LALIZAS HELLAS S.A.** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products.

**5.4** - For information concerning the production phase modules, **LALIZAS HELLAS S.A.** has declared the following manufacturing site(s):

**Xiamen Marine Industries CO.,Ltd.**

N°100, Jingquan Road, Jimei Northern Industrial Area,  
Xiamen, Fujian, 361021, China

**6. MARKING OF PRODUCT:**

Instructions, Diagrams, Markings illustrating the use of the position-indicating light shall be printed indelibly (to be both in English and in French).

The position-indicating light shall be permanently and legibly marked with:

- Any operational restrictions,
- Date of Expiry,
- Precise definition of intended use (e.g. "Position Indicating Light for lifejacket"),
- Batch number,
- Identification of the Manufacturer,
- Easy understandable symbols for on/off switching,
- Model Designation, and
- Information on proper battery disposal by the words "DO NOT INCINERATE/DO NOT RECHARGE/DO NOT TAMPER".

**7. OTHERS:**

It is **LALIZAS HELLAS S.A.**'s responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

\*\*\* END OF CERTIFICATE \*\*\*