TYPE EXAMINATION CERTIFICATE – EC MODULE B

Certificate no.:
MEDB000099A

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED). This Certificate is issued by DNV SE based on the notification of the Federal Maritime and Hydrographic Agency of Germany.

This is to certify:

that the Lifejackets

with type designation(s)
Inflatable Lifejacket Type: HXCQY-S150N

issued to
Shanghai Martian Ship Equipment Co., Ltd.
Shanghai, **China**

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2024/1975,**
item No. MED/1.4. SOLAS 1974 as amended, Reg. III/4, III/7, III/22, III/34 & X3, LSA Code, 2000 HSC Code 8 and IMO MSC/Circ.922, IMO MSC.1/Circ.1304 and 1470 and MSC.1/Circ.1628 and IMO Res. MSC. 481(102)

Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2030-02-25**.

Issued at **Hamburg** on **2025-02-26**

DNV local unit:
Shanghai

Approval Engineer:
Timo Linn

Notified Body
No.: **0098**

for **DNV SE**

Mydlak-Röder, Christine
Head of Notified Body

The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.
This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV SE of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.
Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to USD 300 000.

Product description
"Inflatable Lifejacket Type: HXCQY-S150N"
Is an inflatable lifejacket with 150 N buoyancy. The lifejacket is equipped with a whistle, buddy line, retro reflective material, lifting loop and inflation system (manually, automatically or orally).

Chest size range: 175 cm
Min. weight: > 43 kg

Materials used:

Material	Type designation	Manufacturer
Fabric (Package Fabric)	300D Oxford with PVC backing	See material list under Type examination documentation
Fabric (TPU)	210D Nylon fabric with TPU backing	See material list under Type examination documentation

Application/Limitation
The lifejacket is approved for adult persons of more than 43 kg and up to 140KG.

Retro-reflective materials shall be approved in accordance with the Marine Equipment Directive and bear the MED Mark of Conformity.

The design assessment is based on IMO Res. MSC. 48(66) as amended by IMO Res. MSC. 207(81), IMO Res. MSC. 218(82), IMO Res. MSC. 368(93) and IMO Res. MSC. 481(102).

Production testing shall be carried out according to IMO Res. MSC. 81(70), part 2.

Type Examination documentation

Report	Date
Evaluation and Test report No. 2022003 from Wuhan Testing Center of Marine Life-saving Appliances	2021-12-17 – 2022-02-25
Drawing	**Date**
Drawing No. HXCQY-20210912 – Inflatable Lifejacket	-
Other	**Date**
Operational manual	-
Material list	-

Tests carried out
Tests carried out in accordance with Revised Recommendation on Testing of Life-Saving Appliances, IMO Res. MSC. 81(70), part 1, including IMO Res. MSC. 200(80), IMO Res. MSC. 226(82), IMO Res. MSC. 323(89), IMO Res. MSC. 378(93) and IMO Res. MSC. 481(102) – Type I.

Marking of product
The product is to be indelibly marked with name and address of the manufacturer, type designation and date of manufacture. The markings shall comply with the LSA Code (IMO Res. MSC. 48(66)), item 1.2.2.9 and 2.2.1.6.