Certificate no.:
TAE0000500

TYPE APPROVAL CERTIFICATE

This is to certify:

that the Electrical Equipment

with type designation(s)
LED T8 Tube light

issued to
Qili Optoelectronics Technology (Zhongshan)Co.,Ltd.
ZHONGSHAN, **China**

is found to comply with
DNV rules for classification – Ships, offshore units, and high speed and light craft

Application:

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.

Temperature	**B**
Humidity	**A**
Vibration	**A**

Issued at **Høvik** on **2024-12-11**
This Certificate is valid until **2029-12-10**.
DNV local unit: **China South NB**

for **DNV**

Approval Engineer: **Uwe Supke**

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

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

T8 TUBE LIGHT is equipped with LED module and drive unit, the types below:

Product name	LED T8 TUBE LIGHT
Model/variants	SEPL T8/G13 marine tube light 0600mm STD. 10W SEPL T8/G13 marine tube light 1200mm STD. 18W SEPL T8/G13 marine tube light 1200mm STD. 20W
Rating	85-265V,50/60Hz
IP rating	IP20

Application/Limitation

Location Classes according to DNV-CG-0339:

Temperature	B
Humidity	A
Vibration	A
EMC	B
Enclosure	IP20

The T8 TUBE LIGHT is considered as a component which shall be installed inside of the marine switchboards, consoles etc.
Operating and installation instruction of the manufacturer to be observed.

Type Approval documentation

Tests carried out

DNV-CP-0398(IEC60598-1), Table 1 item 1~25 of DNV-CP-0398 edition Sep. 2021,
DNV-CG-0339 Aug. 2021. EMC acc. IEC60945/2000 Corr.1 2008

Marking of product

Product name, type, manufacture place, etc.

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the Type approval are complied with and that no alterations are made to the product design or choice of materials.

The main elements of the assessment are:

- Inspection on factory samples, selected at random from the production line (where practicable)
- Results from Routine Tests (RT) checked (if not available tests according to RT to be carried out)
- Review of type approval documentation
- Review of possible change in design, materials and performance
- Ensuring traceability between manufacturer's product type marking and Type Approval Certificate.

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE