

DET NORSKE VERITAS

TYPE APPROVAL CERTIFICATE

CERTIFICATE NO. E-11962

This is to certify that the
Light Fitting

with type designation(s)
IL-60 and IL-600, IL-C4

Manufactured by
Mica Elektro Oy Ltd.
HELSINKI, Finland

is found to comply with
Det Norske Veritas' Rules for Classification of Ships, High Speed & Light Craft and Det Norske Veritas' Offshore Standards

Application
Portable torch and charger for use in safe areas on ships and mobile offshore units.

| Type | Vibration class | Enclosure class |
|------------------|-----------------|-----------------|
| IL-60 and IL-600 | A | IP 66 / 67 |
| IL-C4 | A | IP44 |

Høvik, 2012-10-15
for Det Norske Veritas AS

This Certificate is valid until
2015-12-31

Marit Laumann

Marit Laumann
Head of Section



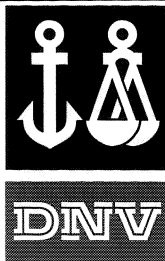
DNV local office:
Helsinki

Nicolay Horn
Nicolay Horn
Surveyor

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.

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.



Certificate No.: E-11962
File No.: 826.10
Job Id.: 262.1-005135-2

Product description

Light fitting (portable torch) with type designations:

Model IL-60, Halogen 6-30W, Ultra bright LED
Model IL-60EM, Halogen 6-30W, Ultra bright LED
Model IL-600, 3x ultra bright LED
Model IL-600EM, 3x ultra bright LED
ILC4, Charger
ILC4-VAC, Charger

Application/Limitation

Operating temperature: -20 to +60 degrees Centigrade.
Charging temperature: 0 to +40 degrees Centigrade.
Operating limitations: Not to be used or charged inside any hazardous area.

Type Approval documentation

Technical info:
"MICA STRONJGEST IN THE MARKED", brochure from Mica Electro Oy Ltd.

Drawings:
Name plates : Model IL-60: Doc.: 002194, dated 30-08-2012; Model IL-600: Doc.: 002193 dated 15-06-2011, ILC4: Doc.: E243Hdated 19.04.2012 & ILC4-VAC: Doc.: E243Hdated 19.04.2012

Test certificates / reports:
For IL-60G/P, IL-60EmG/P models:
IL-60G/P, IL-60EmG/P document kit no. 001154, date 980910
Certificate of thightness test No. AUT/TES/656/98
Certificate of thightness test No. AUT/TES/657/98

For IL-35 charger model:
IL-35 Product description / instruction, doc. No 001158.DOC, date 980910
Certificate of thightness test No. AUT/TES/658/98

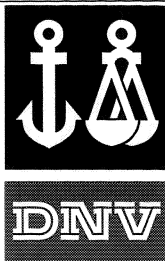
For all models:
EMC test report, VTT report no. AUT/TES/1407/98
Environmental report, VTT report no. AUT/TES/223/99
EMC Test Report 5270-102 dated 2011-04-03

Tests carried out

CENELEC: EN5515, EN 61000-4-2, 3, 4, 5 and 6
IEC: 60529
Vibration test, dry heat test, damp heat test and cold test.

Marking of product

Manufacturer – Type designation – Serial number



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Certificate Retention Survey

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

The main elements of the survey are:

- Inspection on factory samples, selected at random from the production line (where practicable)
- Results from Production Sample Tests (PST) and Routines (RT) checked (if not available tests according to PST and 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.

Survey to be performed at least every second year.

END OF CERTIFICATE