

CERTIFICATE

Issued to:
Applicant:
Sander Elektronik AG
Stauseestrasse 73
5314 Kleindöttingen, Switzerland

Licensee:
Sander Elektronik AG
Stauseestrasse 73
5314 Kleindöttingen, Switzerland

Product : Electronic emergency units for LED lighting
Trade name(s) : DUROLIGHT
Type(s)/model(s) : LEHF-MIRO..., LEHF-SFX..., LEHF-SIT..., LEHF-SRM..., LEHF-S..., LEHF...,
LELK-S..., LELK..., LELM-MIRO..., LELM-SFI..., LELM-SNE..., LELM-SNI2...,
LELM-SNI..., LELM-SNX..., LELM-SRM..., LELM-S..., LELM..., LELT-MIRO...,
LELT-SFX..., LELT-SNI2..., LELT-SNI..., LELT-SNX2..., LELT-SNX...,
LELT-SRM..., LELT-S... and LELT...

The product and any acceptable variation thereto is specified in the Annex to this certificate and the documents therein referred to.

DEKRA hereby declares that the above-mentioned product has been certified on the basis of:

- a type test according to the standard(s) EN 61347-1:2015, EN 61347-1:2015/A1:2021, EN 61347-2-7:2012 and EN 61347-2-7:2012/A1:2019
- an inspection of the factory location according to CENELEC Operational Document CIG 021
- a DEKRA certification agreement with the number 2109045

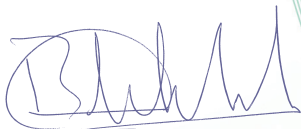
DEKRA hereby grants the right to use the ENEC certification mark.

The ENEC certification mark may be applied to the product as specified in this certificate for the duration and under the conditions of the ENEC certification agreement.

This certificate is issued on 7 October 2022 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 88-125610

DEKRA Certification B.V.



B.T.M. Holtus
Managing Director



C. Nitschke
Certification Manager

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DUTCH ACCREDITATION
COUNCIL



SPECIFICATION OF THE CERTIFIED PRODUCT**Product data**

Product	: Electronic emergency units for LED lighting
Trade name(s)	: DUROLIGHT
Type(s)/model(s)	: LEHF-MIRO..., LEHF-SFX..., LEHF-SIT..., LEHF-SRM..., LEHF-S..., LEHF..., LELK-S..., LELK..., LELM-MIRO..., LELM-SFI..., LELM-SNE..., LELM-SNI2..., LELM-SNI..., LELM-SNX..., LELM-SRM..., LELM-S..., LELM..., LELT-MIRO..., LELT-SFX..., LELT-SNI2..., LELT-SNI..., LELT-SNX2..., LELT-SNX..., LELT-SRM..., LELT-S... and LELT...
Rated voltage	: 220-240 V
Rated frequency	: 50-60 Hz
Supply current	: max. 35 mA
Rated input power	: max. 5 W / 7VA
Max case temperature	: tc = 65 °C tc = 68 °C (only for types LELT-S 55V-4W/6x1865/180Li T, LELT-S 105V-4W/6x1865/180Li T, LELT-S 220V-4W/6x1865/180Li T)
Ambient temperature range	: ta = +5 °C...+50 °C ta = +5 °C...+60 °C (only for types LELT-S 55V-4W/6x1865/180Li T, LELT-S 105V-4W/6x1865/180Li T, LELT-S 220V-4W/6x1865/180Li T)

Product data – type LEHF-MIRO..., LEHF-SFX..., LEHF-SIT..., LEHF-SRM..., LEHF-S... and LEHF...

Rated duration for emergency operation	: 1h / 3h
Batteries	: NiCd / NiMH
Output voltage	: 12 V - 50 V / 20 V – 130 V / 100 V – 300 V
Max Output voltage	: 60 V / 150 V / 350 V
Output power	: 1 W ... 6 W
Housing	: sheet-steel
Classification of installation	: built-in
Description	: emergency lighting units for LED luminaires class I

Product data – type LELK-S... and LELK...

Rated duration for emergency operation	: 1h / 3h
Batteries	: NiCd / NiMH / LiFePO4
Output voltage	: 12 V - 55 V / 20 V - 105 V / 100 V – 220 V
Max Output voltage	: 60 V / 120 V / 300 V
Output power	: 1,3 W ... 2,25 W
Housing	: sheet-steel
Classification of installation	: built-in
Description	: emergency lighting units for LED luminaires class I

Product data – type LELM-MIRO..., LELM-SFI..., LELM-SNE..., LELM-SNI2..., LELM-SNI..., LELM-SNX..., LELM-SRM..., LELM-S... and LELM...

Rated duration for emergency operation	: 1h / 3h / 8h
Batteries	: NiCd / LiFePO4
Output voltage	: 12 V - 55 V / 20 V – 105 V / 100 V – 220 V

Max Output voltage	: 60 V / 120 V / 300 V
Output power	: 0,75 W ... 3 W
Housing	: PC
Classification of installation	: independent
Description	: emergency lighting units for LED luminaires class II

Product data – type LELET-MIRO..., LELET-SFX..., LELET-SNI2..., LELET-SNI..., LELET-SNX2..., LELET-SNX..., LELET-SRM..., LELET-S... and LELET...

Rated duration for emergency operation	: 1h / 2h / 3h / 8h
Batteries	: NiCd / NiMH / LiFePO4
Output voltage	: 12 V - 55 V / 20 V – 105 V / 100 V – 300 V
Max Output voltage	: 60 V / 120 V / 350 V
Output power	: 0,8 W ... 7 W
Housing	: PC
Classification of installation	: built-in
Description	: emergency lighting units for LED luminaires class II

TESTS

Test requirements

EN 61347-1:2015
EN 61347-1:2015/A1:2021
EN 61347-2-7:2012
EN 61347-2-7:2012/A1:2019

Test result

The test results are laid down in DEKRA test file 342778900.

Additional information

With screwless terminals, all types for internal wiring only (0,5... 1,5 mm²), except LELM for external wiring (0,5... 1,5 mm²).

Additional information about type description:

Models: LEHF..., LELT..., LELM..., LELK... are Standard emergency lighting units

Models: LEHF-S..., LEHF-SIT..., LELK-S..., LELM-S..., LELT-S... are Emergency lighting units with self-test (IT with 12h charging time)

Models: LEHF-MIRO..., LELM-MIRO..., LELT-MIRO... are Computer addressable self-testing emergency lighting units (proved according to DALI-norm)

Models: LEHF- SRM..., LELM- SRM..., LELT-SRM..... are Emergency lighting units with self-test for BUS System

Models: LEHF-SFX..., LELT-SFX..., LELT-SNI..., ,LELT-SNI2..., LELT-SNX..., LELT-SNX2..., LELM-SFI..., LELM-SNE..., LELM-SNI..., ,LELM-SNI2..., LELM-SNX... are Wireless computer addressable self-testing emergency lighting units

An additional letter "MB" in the type designation indicates the type is equipped with an acoustic signal

An additional letter "P" in the type designation indicates the type is equipped with a push button

An additional letter "MH" in the type designation indicates the type is for use with NiMH batteries

An additional letter "Li" in the type designation indicates the type is for use with LiFePO₄ batteries

An additional letter "G" in the type designation indicates the type is shipped without accessories (accessories have to be ordered separately)

An additional letter "O" in the type designation indicates the type is without an housing

An additional letter "OEM" in the type designation indicates the type is for the OEM market

This certificate replaces certificate No. 71-112657 which we hereby declare invalid.

The list of components is laid down in test report 3427789.50.

Conclusion

The examination proved that all requirements were met.

Factory location

Sander Elektronik AG

Stauseestrasse 73

5314 Kleindöttingen, Switzerland