

CERTIFICATE

Issued to:
Applicant:
Lampec AG
Stauseestrasse 73
5314 Kleindöttingen, Switzerland

Licensee:
Sander Elektronik AG
Stauseestraße 73
5314 Kleindöttingen, Switzerland

Product : emergency units for fluorescent lamps
Trade name(s) : ELUNIT
Type(s)/model(s) : ELUNIT...

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 EN 61347-2-7:2012 and EN 61347-1:2015
- an inspection of the production location according to CENELEC Operational Document CIG 021
- a 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 of the ENEC certification agreement and under the conditions of the ENEC certification agreement.

This certificate is issued on 31 May 2018 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 88-104095

DEKRA Certification B.V.



drs. G.J. Zoetbrood
Managing Director



Henk Barends
Certification Manager

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DUTCH ACCREDITATION
COUNCIL



SPECIFICATION OF THE CERTIFIED PRODUCT
Product data

Product	: emergency units for fluorescent lamps
Trade name(s)	: ELUNIT
Type(s)/model(s)	: ELUNIT 14-80/1h/6cd, ELUNIT 14-80/3h/4cd, ELUNIT 6-80/1h/4cd, ELUNIT 6-80/1h/4mh, ELUNIT 6-80/3h/4cd, ELUNIT 6-80/3h/4mh, ELUNIT FBS 14-80/1h/6cd, ELUNIT FBS 14-80/3h/4cd, ELUNIT FBS 6-80/1h/4cd, ELUNIT FBS 6-80/1h/4mh, ELUNIT FBS 6-80/3h/4cd, ELUNIT FBS 6-80/3h/4mh, ELUNIT FDS 6-80/1h/4cd, ELUNIT FDS 6-80/1h/4mh, ELUNIT FDS 6-80/3h/4cd, ELUNIT FDS 6-80/3h/4mh, ELUNIT K 14-80/1h/6cd, ELUNIT K 14-80/3h/4cd, ELUNIT K 6-80/1,5h/6cd, ELUNIT K 6-80/1h/4cd, ELUNIT K 6-80/1h/4mh, ELUNIT K 6-80/3h/4cd, ELUNIT K 6-80/3h/4mh, ELUNIT K-FBS 14-80/1h/3cd, ELUNIT K-FBS 14-80/1h/6cd, ELUNIT K-FBS 4-13/1h/3cd, ELUNIT K-FBS 4-13/3h/3cd, ELUNIT K-FBS 6-80/1,5h/6cd, ELUNIT K-FBS 6-80/1h/4cd, ELUNIT K-FBS 6-80/1h/4mh, ELUNIT K-FBS 6-80/3h/4cd, ELUNIT K-FBS 6-80/3h/4mh, ELUNIT K-FBS 6-80/3h/6cd, ELUNIT K-FDS 6-80/1h/4cd, ELUNIT K-FDS 6-80/1h/4mh, ELUNIT K-FDS 6-80/3h/4cd, ELUNIT K-FDS 6-80/3h/4mh, ELUNIT K-S 14-80/1h/6cd, ELUNIT K-S 14-80/3h/4cd, ELUNIT K-S 6-80/1,5h/6cd, ELUNIT K-S 6-80/1h/4cd, ELUNIT K-S 6-80/1h/4mh, ELUNIT K-S 6-80/3h/4cd, ELUNIT K-S 6-80/3h/4mh, ELUNIT S 14-80/1h/6cd, ELUNIT S 14-80/3h/4cd, ELUNIT S 6-80/1h/4cd, ELUNIT S 6-80/1h/4mh, ELUNIT S 6-80/3h/4cd and ELUNIT S 6-80/3h/4mh
Rated voltage	: 220-230 V
For lamp type	: 6-80 W acc. data sheet
Rated max. operating temperature	: tc = 65°C
Ambient temperature range	: ta max +50°C
Duration of emergency operation	: 1 hr or 3 hr or 1 hr 30min.
Description	: for building in luminaire appliances

List of components

Component	Manufacturer/ Trade name	Type/Model	Approval mark ¹⁾
screwless terminals	Phoenix	PTSA 1,5/-,3,5-Z	KEMA
screwless terminals	Wago	250	KEMA
screwless terminals	DEGSON	250	VDE
capacitor C300	Topmay	X2, 250 Vac, 100 nF	ENEC
capacitor C301, C302	Vishay	Y2, 300 Vac, 3.3nF	ENEC
Relay	Hongfa	HFD27/012-S	TUV
Relay	Hongfa	HF32FA	TUV
Transformer	Sander Elektronik A.G.	912112	Tested as part of the appliance
Transformer	Sander Elektronik A.G.	912111	Tested as part of the appliance

¹⁾ * indicates a component tested as part of the appliance

Product data – type ELUNIT 14-80/1h/6cd

Emergency lighting operating time	: 1 hr
Battery type	: NiCd 2x3x1,2 V/1,8 Ah

Product data – type ELUNIT 14-80/3h/4cd

Emergency lighting operating time : 3 hr
Battery type : NiCd 2x3x1,2 V/4,5 Ah

Product data – type ELUNIT 6-80/1h/4cd

Emergency lighting operating time : 1 hr
Battery type : NiCd 4x1,2 V/1,8 Ah

Product data – type ELUNIT 6-80/1h/4mh

Emergency lighting operating time : 1 hr
Battery type : NiMH 4x1,2 V/1,8 Ah

Product data – type ELUNIT 6-80/3h/4cd

Emergency lighting operating time : 3 hr
Battery type : NiCd 4x1,2 V/4,5 Ah

Product data – type ELUNIT 6-80/3h/4mh

Emergency lighting operating time : 3 hr
Battery type : NiMH 2x2x1,2 V/4,5 Ah

Product data – type ELUNIT FBS 14-80/1h/6cd

Emergency lighting operating time : 1 hr
Battery type : NiCd 2x3x1,2 V/1,8 Ah

Product data – type ELUNIT FBS 14-80/3h/4cd

Emergency lighting operating time : 3 hr
Battery type : NiCd 2x3x1,2 V/4,5 Ah

Product data – type ELUNIT FBS 6-80/1h/4cd

Emergency lighting operating time : 1 hr
Battery type : NiCd 4x1,2 V/1,8 Ah

Product data – type ELUNIT FBS 6-80/1h/4mh

Emergency lighting operating time : 1 hr
Battery type : NiMH 4x1,2 V/1,8 Ah

Product data – type ELUNIT FBS 6-80/3h/4cd

Emergency lighting operating time : 3 hr
Battery type : NiCd 4x1,2 V/4,5 Ah

Product data – type ELUNIT FBS 6-80/3h/4mh

Emergency lighting operating time : 3 hr
Battery type : NiMH 2x2x1,2 V/4,5 Ah

Product data – type ELUNIT FDS 6-80/1h/4cd

Emergency lighting operating time : 1 hr

Battery type : NiCd 4x1,2 V/1,8 Ah

Product data – type ELUNIT FDS 6-80/1h/4mh

Emergency lighting operating time : 1 hr
Battery type : NiMH 4x1,2 V/1,8 Ah

Product data – type ELUNIT FDS 6-80/3h/4cd

Emergency lighting operating time : 3 hr
Battery type : NiCd 4x1,2 V/4,5 Ah

Product data – type ELUNIT FDS 6-80/3h/4mh

Emergency lighting operating time : 3 hr
Battery type : NiMH 2x2x1,2 V/4,5 Ah

Product data – type ELUNIT K 14-80/1h/6cd

Emergency lighting operating time : 1 hr
Battery type : NiCd 2x3x1,2 V/1,8 Ah

Product data – type ELUNIT K 14-80/3h/4cd

Emergency lighting operating time : 3 hr
Battery type : NiCd 2x3x1,2 V/4,5 Ah

Product data – type ELUNIT K 6-80/1,5h/6cd

Emergency lighting operating time : 1 hr 30 min.
Battery type : NiCd 2x3x1,2 V/1,8 Ah

Product data – type ELUNIT K 6-80/1h/4cd

Emergency lighting operating time : 1 hr
Battery type : NiCd 4x1,2 V/1,8 Ah

Product data – type ELUNIT K 6-80/1h/4mh

Emergency lighting operating time : 1 hr
Battery type : NiMH 4x1,2 V/1,8 Ah

Product data – type ELUNIT K 6-80/3h/4cd

Emergency lighting operating time : 3 hr
Battery type : NiCd 4x1,2 V/4,5 Ah

Product data – type ELUNIT K 6-80/3h/4mh

Emergency lighting operating time : 3 hr
Battery type : NiMH 2x2x1,2 V/4,5 Ah

Product data – type ELUNIT K-FBS 14-80/1h/3cd

Emergency lighting operating time : 1 hr
Battery type : NiCd 3x1,2 V/4,5 Ah

Product data – type ELUNIT K-FBS 14-80/1h/6cd

Emergency lighting operating time : 1 hr
Battery type : NiCd 2x3x1,2 V/1,8 Ah

Product data – type ELUNIT K-FBS 4-13/1h/3cd

Emergency lighting operating time : 1 hr
Battery type : NiCd 3x1,2 V/1,8 Ah

Product data – type ELUNIT K-FBS 4-13/3h/3cd

Emergency lighting operating time : 1 hr
Battery type : NiCd 3x1,2 V/4,5 Ah

Product data – type ELUNIT K-FBS 6-80/1,5h/6cd

Emergency lighting operating time : 1 hr 30 min
Battery type : NiCd 2x3x1,2 V/1,8 Ah

Product data – type ELUNIT K-FBS 6-80/1h/4cd

Emergency lighting operating time : 1 hr
Battery type : NiCd 4x1,2 V/1,8 Ah

Product data – type ELUNIT K-FBS 6-80/1h/4mh

Emergency lighting operating time : 1 hr
Battery type : NiMH 4x1,2 V/1,8 Ah

Product data – type ELUNIT K-FBS 6-80/3h/4cd

Emergency lighting operating time : 1 hr
Battery type : NiCd 4x1,2 V/4,5 Ah

Product data – type ELUNIT K-FBS 6-80/3h/4mh

Emergency lighting operating time : 3 hr
Battery type : NiMH 2x2x1,2 V/4,5 Ah

Product data – type ELUNIT K-FBS 6-80/3h/6cd

Emergency lighting operating time : 3 hr
Battery type : NiCd 2x3x1,2 V/4,5 Ah

Product data – type ELUNIT K-S 14-80/1h/6cd

Emergency lighting operating time : 1 hr
Battery type : NiCd 2x3x1,2 V/1,8 Ah

Product data – type ELUNIT K-S 14-80/3h/4cd

Emergency lighting operating time : 3 hr
Battery type : NiCd 2x3x1,2 V/4,5 Ah

Product data – type ELUNIT K-S 6-80/1,5h/6cd

Emergency lighting operating time : 1 hr 30 min.
Battery type : NiCd 2x3x1,2 V/1,8 Ah

Product data – type ELUNIT K-S 6-80/1h/4cd

Emergency lighting operating time : 1 hr
Battery type : NiCd 4x1,2 V/1,8 Ah

Product data – type ELUNIT K-S 6-80/1h/4mh

Emergency lighting operating time : 1 hr
Battery type : NiMH 4x1,2 V/1,8 Ah

Product data – type ELUNIT K-S 6-80/3h/4cd

Emergency lighting operating time : 3 hr
Battery type : NiCd 4x1,2 V/4,5 Ah

Product data – type ELUNIT K-S 6-80/3h/4mh

Emergency lighting operating time : 3 hr
Battery type : NiMH 2x2x1,2 V/4,5 Ah

Product data – type ELUNIT S 14-80/1h/6cd

Emergency lighting operating time : 1 hr
Battery type : NiCd 2x3x1,2 V/1,8 Ah

Product data – type ELUNIT S 14-80/3h/4cd

Emergency lighting operating time : 3 hr
Battery type : NiCd 2x3x1,2 V/4,5 Ah

Product data – type ELUNIT S 6-80/1h/4cd

Emergency lighting operating time : 1 hr
Battery type : NiCd 4x1,2 V/1,8 Ah

Product data – type ELUNIT S 6-80/1h/4mh

Emergency lighting operating time : 1 hr
Battery type : NiMH 4x1,2 V/1,8 Ah

Product data – type ELUNIT S 6-80/3h/4cd

Emergency lighting operating time : 3 hr
Battery type : NiCd 4x1,2 V/4,5 Ah

Product data – type ELUNIT S 6-80/3h/4mh

Emergency lighting operating time : 3 hr
Battery type : NiMH 2x2x1,2 V/4,5 Ah

TESTS**Test requirements**

EN 61347-2-7:2012
EN 61347-1:2015

Test result

The test results are laid down in DEKRA test file 340865800.

Additional information

This certificate is derived from ENEC/KEMA-KEUR certificate no. 71-102885.

Conclusion

The examination proved that all requirements were met.

Factory location

Sander Elektronik AG
Stauseestraße 73
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