

CERTIFICATE

Issued to:
 Applicant:
Helvar Oy Ab
Yrittajantie 23
03600 Karkkila, Finland

Licensee:
Helvar Oy Ab
Yrittajantie 23
03600 Karkkila, Finland

Product : Electronic controlgear (LED driver)
 Trade name(s) : Helvar
 Type(s)/model(s) : LL1x10-42-CR-DA, LL1x110-CR-DA, LL1x150-CR-DA, LL1x23-80-CR-DA, LL1x80-CR-DA and LL1x80-DA-350-700

The product and any acceptable variation thereto as 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 EN 61347-2-13:2014, EN 61347-2-13:2014/A1:2017, EN 61347-1:2015, EN 61347-1:2015/A1:2021 and EN IEC 62384:2020
- an inspection of the factory location according to CENELEC Operational Document CIG 021
- a DEKRA certification agreement with the number 4351636

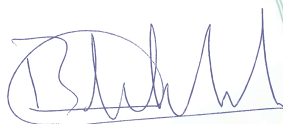
DEKRA hereby grants the right to use the ENEC certification mark.

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 23 July 2023 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 35-129787

DEKRA Certification B.V.



B.T.M. Holtus
 Managing Director



K Xu
 Certification Manager

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 COUNCIL



SPECIFICATION OF THE CERTIFIED PRODUCT**Product data**

Product	: Electronic controlgear (LED driver)
Trade name(s)	: Helvar
Type(s)/model(s)	: LL1x10-42-CR-DA, LL1x110-CR-DA, LL1x150-CR-DA, LL1x23-80-CR-DA, LL1x80-CR-DA and LL1x80-DA-350-700
Rated input voltage	: 220-240 VAC/DC
Rated frequency	: 50-60/0 Hz
Ambient temperature (ta)	: -25-50 °C
Additional information	: auto-wound, non-inherently short-circuit proof, 120 °C thermal protection, EL mark

Product data – type LL1x10-42-CR-DA

Input current	: 0,2-0,22 A
Max. case temperature (tc)	: 85 °C
Power factor	: 0,80C-0,98
Rated power	: 26,4-42 W

Product data – type LL1x110-CR-DA

Input current	: 0,44-0,6 A
Max. case temperature (tc)	: 85 °C
Power factor	: 0,98
Rated power	: 110 W

Product data – type LL1x150-CR-DA

Input current	: 0,53-0,71 A
Max. case temperature (tc)	: 90 °C
Power factor	: 0,96-0,98
Rated power	: 122,5-150 W

Product data – type LL1x23-80-CR-DA

Input current	: 0,22-0,42 A
Max. case temperature (tc)	: 85 °C
Power factor	: 0,89C-0,98
Rated power	: 52,5-80 W

Product data – type LL1x80-CR-DA

Input current	: 0,34-0,44 A
Max. case temperature (tc)	: 85 °C
Power factor	: 0,84C-0,98
Rated power	: 77-80 W

Product data – type LL1x80-DA-350-700

Input current	: 0,34-0,44 A
Max. case temperature (tc)	: 85 °C
Power factor	: 0,94C-0,98
Rated power	: 80 W

TESTS**Test requirements**

EN 61347-2-13:2014
EN 61347-2-13:2014/A1:2017
EN 61347-1:2015
EN 61347-1:2015/A1:2021
EN IEC 62384:2020

Test result

The test results are laid down in DEKRA test file 439808700.

Additional information

The list of components is laid down in test report 4398087.50, 4398087.51.

Conclusion

The examination proved that all requirements were met.

Factory locations

Helvar Oy Ab
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03600 Karkkila, Finland

Trade name(s) : Helvar stands for

Helvar