

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

CB TEST CERTIFICATE

Product

Electronic controlgear for LED module

Name and address of the applicant

Helvar Oy Ab
Keilaranta 5
FI-02150 Espoo
Finland

Name and address of the manufacturer

Helvar Oy Ab
Keilaranta 5
FI-02150 Espoo
Finland

Name and address of the factory

See page 3

Note: When more than one factory, please report on page 2

Additional Information on page 2

Ratings and principal characteristics

See page 2

Trademark (if any)

HELVAR

Customer's Testing Facility (CTF) Stage used

-

Model / Type Ref.

LL1x150-CR-DA, LL1x150-CR Active+,
LL1x110-CR-DA, LL1x110 Active+,
LL1x110-CR Active+, LL1x80-CR-DA,
LL1x80-CR Active+, LL1x23-80-CR-DA,
LL1x23-80 Active+, LL1x80-DA-350-700,
LL1x80-350-700 Active+, LL1x10-42 Active+
LL1x10-42-CR-DA, LL1x10-42-CR Active+

Additional information (if necessary may also be reported on page 2)

This certificate replaces previous CB certificate no. FI-35914 A1, dated 02 May 2018. New alternative capacitor C2, new PCB layout and updated circuit diagram for model LL1x150-CR-DA. Name of the factory 3 has been updated.

A sample of the product was tested and found to be in conformity with

Additional Information on page 2

As shown in the Test Report Ref. No. which forms part of this Certificate

IEC 61347-2-13:2014
IEC 61347-2-13:2014/AMD1:2016
IEC 61347-1:2015

National Differences:

FI, EU Group Differences

289530-1A, 289530-1A Amendment-1

This CB Test Certificate is issued by the National Certification Body


SGS Fimko Ltd.
Särkiniementie 3
FI-00210 Helsinki, Finland



SGS Fimko Ltd.

Date: 2018-12-17

Signature:



Joonas Leinonen
Specialist

Ratings and principal characteristics

LL1x150-CR-DA, LL1x150-CR Active+:

220-240 V; 0/50-60 Hz; Iout/Vout: 350 mA / 257...350 V or 700 mA / 128...214 V; λ 0,98;
U-OUT: 400 V; Prated: 150 W; ta: -25...+50 °C; tc: 80 °C

LL1x110-CR-DA, LL1x110-CR Active+:

220-240 V; 0/50-60 Hz; Iout/Vout: 350 mA / 120...314 V or 700 mA / 50...157 V; λ 0,98;
U-OUT: 400 V; Prated: 110 W; ta: -25...+50 °C; tc: 75 °C

LL1x80-CR-DA, LL1x80-CR Active+:

220-240 V; 0/50-60 Hz; Iout/Vout: 350 mA / 50...220 V or 700 mA / 35...114 V; λ 0,98;
U-OUT: 250 V; Prated: 80 W; ta: -20...+50 °C; tc: 75 °C

LL1x23-80-CR-DA, LL1x23-80 Active+:

220-240 V; 0/50-60 Hz; Iout/Vout: 150 mA / 150...350 V or 350 mA / 64...228 V; U-OUT 400 V;
Prated 80 W; λ 0.98; tc +75 °C; ta -25...+50 °C; EL-marked

LL1x80-DA-350-700, LL1x80-350-700 Active+:

220-240 V; 0/50-60 Hz; Iout/Vout: 350 mA / 71...228 V or 700 mA / 35...114 V; U-OUT 400 V;
Prated 80 W; λ 0.98; tc +75 °C; ta -20...+50 °C; EL-marked

LL1x10-42 Active+:

220-240 V; 0/50-60 Hz; Iout/Vout: 120 mA / 80...350 V or 350 mA / 50...120 V; λ 0,98;
U-OUT: 400 V; Prated: 42 W; ta: -20...+50 °C; tc: 75 °C

LL1x10-42-CR-DA, LL1x10-42-CR Active+:

220-240 V; 0/50-60 Hz; Iout/Vout: 120 mA / 80...220 V or 350 mA / 50...120 V; λ 0,98;
U-OUT: 250 V; Prated: 42 W; ta: -25...+50 °C; tc: 75 °C

LL1x110 Active+:

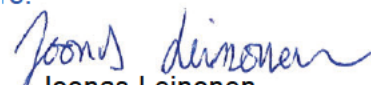
220-240 V; 0/50-60 Hz; Iout/Vout: 350 mA / 120...314 V or 700 mA / 50...157 V; λ 0,98;
U-OUT: 400 V; Prated: 110 W; ta: -20...+50 °C; tc: 75 °C

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FI-00210 Helsinki, Finland


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Name and address of the factories:

1. Helvar Oy Ab
Yrittäjätie 23
FI-03600 Karkkila
Finland


SGS Fimko Ltd.
Särkiniementie 3
FI-00210 Helsinki, Finland



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