

**IEC****IECEE  
CB  
SCHEME**

Ref. Certif. No.

**FI 8649 M3**IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST  
CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE)  
CB SCHEMESYSTEME CEI D'ACCEPTATION MUTUELLE DE  
CERTIFICATS D'ESSAIS DES EQUIPEMENTS  
ELECTRIQUES (IECEE) METHODE OC**CB TEST CERTIFICATE****CERTIFICAT D'ESSAI OC**Product  
Produit**Electronic control gear for LED module**Name and address of the applicant  
Nom et adresse du demandeurHelvar Oy Ab  
Keilaranta 5  
FI-02150 Espoo, FinlandName and address of the manufacturer  
Nom et adresse du fabricant

Same as applicant

Name and address of the factory  
**Nom et adresse de l'usine**

See page 3

Note: When more than one factory, please report on page 2  
Note: Lorsque il y plus d'une usine, veuillez utiliser la 2<sup>ème</sup> page Additional Information on page 2Ratings and principal characteristics  
Valeurs nominales et caractéristiques principales

See page 2

Trademark (if any)  
Marque de fabrique (si elle existe)**HELVAR**Type of Manufacturer's Testing Laboratories used  
Type de programme du laboratoire d'essais constructeur

-

Model / Type Ref.  
Ref. De typeLL1x110-E-DA, LL1x110-E-DA Active +,  
LL1x10-42 Active+, LL1x10-42-DA Active+,  
LL1x10-42-E-DA, LL1x110 Active+, LL1x23-80-DA,  
LL1x80-DA-350-700, LL1x80-350-700 Active+,  
LL1x23-80 Active+, LL1x80-CR-DA, LL1x80-CR Active+Additional information (if necessary may also be reported  
on page 2)  
Les informations complémentaires (si nécessaire,, peuvent  
être indiqués sur la 2<sup>ème</sup> pageThis certificate replaces previous CB FI certificate no. 8649  
M2, dated 17 February 2016. The certificate has been  
updated due to addition of new models and changed  
address of the certificate holder, manufacturer and Helvar  
manufacturing site. Modifications have also been done to  
the model LL1x10-42 Active+.A sample of the product was tested and found  
to be in conformity with  
Un échantillon de ce produit a été essayé et a été  
considéré conforme à laIEC 61347-2-13:2014  
IEC 61347-1:2007, IEC 61347-1:2007/AMD1:2010,  
IEC 61347-1:2007/AMD2:2012As shown in the Test Report Ref. No. which forms part of  
this Certificate  
Comme indiqué dans le Rapport d'essais numéro de  
référence qui constitue partie de ce Certificat278117-1\_A, 278117-1\_A Amendment-1, 278117-1\_A  
Amendment-2  
280707-1A, 280707-1A Amendment-1, 280707-1A  
Amendment-2This CB Test Certificate is issued by the National Certification Body  
Ce Certificat d'essai OC est établi par l'Organisme National de Certification

(SGS Fimko's ref.no. 287245-1)

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

Signature:

Peter Fagerstedt  
Certification manager**SGS****SGS Fimko Ltd.**

Date: 2017-03-09

Ratings and principal characteristics  
Valeurs nominales et caractéristiques principales

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

220-240 V; 0/50-60 Hz; U-out max 400 V; P-out max 80 W;  $\lambda$  0.98; tc +75 °C; ta -20...+50 °C  
Iout/Vout: 350 mA / 71...228 V or 700 mA / 35...114 V

LL1x23-80-DA and LL1x23-80 Active+:

220-240 V; 0/50-60 Hz; U-out max 400 V; P-out max 80 W;  $\lambda$  0.98; tc +75 °C; ta -20...+50 °C  
Iout/Vout: 150 mA / 150...350 V or 350 mA / 64...228 V

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

220-240 V; 0/50-60 Hz; Iout/Vout: 120 mA / 80...350 V or 350 mA / 50...120 V;  $\lambda$  0,98; Uoutmax: 400 V;  
P-outmax: 42 W; ta: -20...+50 °C; tc: 75 °C

LL1x110-E-DA Active+, LL1x110-E-DA, LL1x110 Active+:

220-240 V; 0/50-60 Hz; Iout/Vout: 350 mA / 120...314 V or 700 mA / 50...157 V;  $\lambda$  0,98; Uoutmax: 400 V;  
Poutmax: 110 W; ta: -20...+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;  $\lambda$  0,98; Uoutmax: 250 V;  
Poutmax: 80 W; ta: -20...+50 °C; tc: 75 °C

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

Signature:



Peter Fagerstedt  
Certification Manager

SGS

SGS Fimko Ltd.

Date: 2017-03-09

Name and address of the factory  
Nom et adresse de l'usine

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

2. Delta Electronics (Wuhu) Ltd.  
No.138, Jiuhoa North Road  
Longshan Street, Economictechnical Development Area, Wuhu  
241009 Anhui  
China

3. JABIL Circuit Poland Sp. z.o.o.  
ul. Milosna 32  
82-500 Kwidzyn  
Poland

SGS Fimko Ltd.  
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FI-00210 Helsinki, Finland

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