

CERTIFICATE ENEC/FI 2015004 M2



Our Ref. 282364-1

Product	Electronic control gear for LED module
Rating and principal characteristics	See page 2
Trade mark (if any)	HELVAR
Type	LL1x110-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+
Name and address of the licensee	Helvar Oy Ab PL 100 FI-03601 KARKKILA, FINLAND
Address of the manufacturer	Helvar Oy Ab Yrittäjätie 23 FI-03600 KARKKILA, FINLAND
Is in conformity with	EN 61347-1:2008 + A1:2011 + A2:2013 EN 61347-2-13:2014 EN 62384:2006 + A1:2009
As shown in the Test Report(s) No(s)	278117-1_A, 278117-1_A Amendment-1 278117-1_B, 278117-1_B Amendment-1 280707-1A, 280707-1A Amendment-1 280707-1B, 280707-1B Amendment-1
It is authorized to use of the marks	ENEC 16 and FI
Validity	This certificate is valid until 13 January 2020 unless the standard in question has been amended or superseded with significant changes in requirements, in which case, SGS Fimko has the right to shorten the validity of the certificate based on the legislation of the European Union. This certificate includes the right to use the ENEC 16 and FI mark under the condition that changes (if any) will be checked at SGS Fimko before the product is brought onto market and that the conditions for ENEC and FI certification are met.
Directive information	The product(s) fulfils the essential safety requirements for CE conformity marking according to the Low Voltage Directive (2006/95/EC) at the date of issue of this certificate.
With the following limitations	-
Date of issue	17 February 2016
Signature	SGS Fimko Ltd Peter Fagerstedt Senior Testing Engineer



This certificate has 3 pages



This certificate is issued by the company under its General Conditions for Certification Services accessible at <http://www.sgs.fi/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitations of liability defined therein and in the Test Report here above mentioned which findings are reflected in this certificate. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Rating and principal characteristics

LL1x80-DA-350-700 and LL1x80-350-700 Active+:
 220-240 V; 0/50-60 Hz; U-out max 400V; P-out max 80W; λ 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 400V; P-out max 80W; λ 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:
 220-240V; 0/50-60Hz; Iout/Vout: 120mA/80...350V or
 350mA/50...120V; λ 0,98; Uoutmax: 400V; P-outmax: 42W;

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; λ 0,98; Uoutmax: 400 V; Poutmax: 110 W; ta: -20...+50 °C;
 tc: 75 °C

Additional information

This certificate replaces previous ENEC/FI certificate no. 2015004 M1,
 dated 25 August 2015. The certificate has been updated due to
 addition of new models.




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Manufacturing site(s)

Helvar Oy Ab
Yrittäjätie 30
FI-03600 KARKKILA, FINLAND

Delta Electronics (Wuhu) Ltd.
No. 138, Jihua North Road, Longshan street
Economic- technical Development Area, Wuhu City
ANHUI PROVINCE, 241009, CHINA

JABIL Circuit Poland Sp. z o.o.
ul. Milosna 32
82-500 KWIDZYN, POLAND