

# CERTIFICATE ENEC/FI 2015004 M1



Our Ref. 280707-1

<b>Product</b>	Electronic control gear for LED module
<b>Rating and principal characteristics</b>	See page 2
<b>Trade mark (if any)</b>	Helvar
<b>Type</b>	LL1x10-42 Active+, LL1x10-42-DA Active+, LL1x10-42-E-DA, LL1x110-E-DA Active+, LL1x110-E-DA, LL1x110 Active+
<b>Name and address of the licensee</b>	Helvar Oy Ab PL 100, FI-03601 KARKKILA, FINLAND
<b>Address of the manufacturer</b>	Helvar Oy Ab Yrittäjätie 23, FI-03600 KARKKILA, FINLAND
<b>Is in conformity with</b>	EN 61347-2-13:2014 EN 61347-1:2008 + A1:2011 + A2:2013 EN 62384:2006 + A1:2009
<b>As shown in the Test Report(s) No(s)</b>	278117-1_A, 278117-1_A Amendment-1 278117-1_B, 278117-1_B Amendment-1 280707-1A, 280707-1B
<b>It is authorized to use of the marks</b>	ENEC 16 and FI
<b>Validity</b>	This certificate is valid until 26 March 2018 unless the standard in question has been amended or superseded with significant changes in requirements, in which case, SGS Fimko has the right to shorten the validity of the certificate based on the legislation of the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.
<b>Directive information</b>	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.
<b>With the following limitations</b>	-
<b>Date of issue</b>	25 August 2015
<b>Signature</b>	<b>SGS Fimko Ltd</b>  Pasi Orreveläinen Team Leader



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.

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**Rating and principal characteristics**

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;  
 $\lambda$  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;  $\lambda$  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 A1, dated 16 July 2015. The certificate has been updated due to addition of new models. Also the addresses of manufacturing sites have been changed.