

# CERTIFICATE

Issued to:  
Applicant:  
**Cooper Univel S.A.**  
88 Thessaloniki Street  
601 00 Katerini, Greece

Licensee:  
**COOPER CSA S.R.L.**  
Via San Bovio 3 - Edificio Y  
20090 Segrate (MI), Italy

Product : Battery supplied electronic ballast for emergency lighting  
Trade name(s) : EATON, EATON CROMPTON, EATON JSB or EATON MENVIER  
Type(s)/model(s) : HVLD series, LVLD series and MVLD series

The product and any acceptable variation thereto is 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 the standard EN 61347-2-7:2012 and EN 61347-1:2015
- an inspection of the production location according to CENELEC Operational Document CIG 021
- a certification agreement with the number 3504272

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

Compliance with the requirements of this Standard carries a presumption of conformity with the essential safety requirements of the Low voltage directive (LVD) 2014/35/EU.

The ENEC certification mark may be applied to the product as specified in this certificate for the duration of the ENEC certification agreement and under the conditions of the ENEC certification agreement.

This certificate is issued on 12 June 2018 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 81-104063

DEKRA Certification B.V.



drs. G.J. Zoetbrood  
Managing Director



Henk Barends  
Certification Manager

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DUTCH ACCREDITATION  
COUNCIL



**SPECIFICATION OF THE CERTIFIED PRODUCT****Product data**

Product	: Battery supplied electronic ballast for emergency lighting
Trade name(s)	: EATON, EATON CROMPTON, EATON JSB or EATON MENVIER
Type(s)/model(s)	: HVLD series, LVLD series and MVLD series
Supply voltage	: 230 Vac
Rated frequency	: 50/60 Hz
Classification of installation	: For building-in
Supply connection	: Screwless terminal block
Battery	: 6,4 V; 3,2 Ah, LiFePO4
Rated duration	: 60 –180 minutes

**TESTS****Test requirements**

EN 61347-2-7:2012  
EN 61347-1:2015

**Test result**

The test results are laid down in DEKRA test file 350504200.

**Additional information**

The test results are laid down in DEKRA test file 350504200.  
Dekra test report No. 3505042.50 is laid down in Dekra test file 350504200.  
It contains both test results and critical component list

For a complete list of models, see table on the last page.

**Conclusion**

The examination proved that all requirements were met.

**Factory location**

SC Cooper Industries Romania SRL  
Zona Industrială Vest  
Str. III, Nr. 12  
310510 Arad, Romania

Models	Classification	Vin V	Hz	Iin mA	PF λ	t <sub>a</sub> (°C)	t <sub>c</sub> (°C)	IP XX
LVLD-2L-CGL LVLD-2L-CGL-C LVLD-2L-CGL-J LVLD-2L-CGL-M LVLD-2L-D LVLD-2L-D-C LVLD-2L-D-J LVLD-2L-D-M LVLD-2LCGLTB LVLD-2L-D-TB	Built-in SELV	230	50/60	20	0,50C	5 - 50	60	20

MVLD-2L-CGL MVLD-2L-CGL-C MVLD-2L-CGL-J MVLD-2L-CGL-M MVLD-2L-D MVLD-2L-D-C MVLD-2L-D-J MVLD-2L-D-M MVLD-2LCGLTB MVLD-2L-D-TB	Built-in SELV	230	50/60	20	0,50C	5 - 50	60	20
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HVLD-2L-CGL HVLD-2L-CGL-C HVLD-2L-CGL-J HVLD-2L-CGL-M HVLD-2L-D HVLD-2L-D-C HVLD-2L-DL-J HVLD-2L-D-M HVLD-2LCGLTB HVLD-2L-D-TB	Built-in —	230	50/60	20	0,50C	5 - 50	60	20
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## Emergency duration 60 minutes

Models	Rated duration	Vout operating (V)	Iout operating (mA)	U-OUT V	Battery LiFePO <sub>4</sub>	Type controlgear
LVLD-2L-CGL LVLD-2L-CGL-C LVLD-2L-CGL-J LVLD-2L-CGL-M LVLD-2L-D LVLD-2L-D-C LVLD-2L-D-J LVLD-2L-D-M LVLD-2LCGLTB LVLD-2L-D-TB	60 minutes	1 H      3 – 33 CV        12	778 – 200 550 max	40	6,4 V; 3,2 Ah	<b>EL-T</b>
MVLD-2L-CGL MVLD-2L-CGL-C MVLD-2L-CGL-J MVLD-2L-CGL-M MVLD-2L-D MVLD-2L-D-C MVLD-2L-D-J MVLD-2L-D-M MVLD-2LCGLTB MVLD-2L-D-TB	60 minutes	1 H      20 – 55 CV        24	250 – 100 200 max	60	6,4 V; 3,2 Ah	<b>EL-T</b>
HVLD-2L-CGL HVLD-2L-CGL-C HVLD-2L-CGL-J HVLD-2L-CGL-M HVLD-2L-D HVLD-2L-D-C HVLD-2L-DL-J HVLD-2L-D-M HVLD-2LCGLTB HVLD-2L-D-TB	60 minutes	1 H      40 – 180 CV        48	112 – 24 100 max	200	6,4 V; 3,2 Ah	<b>EL-T</b>


Emergency duration 180 minutes

Models	Rated duration	Vout operating (V)	Iout operating (mA)	U-OUT V	Battery LiFePO <sub>4</sub>	Type controlgear
LVLD-2L-CGL LVLD-2L-CGL-C LVLD-2L-CGL-J LVLD-2L-CGL-M LVLD-2L-D LVLD-2L-D-C LVLD-2L-D-J LVLD-2L-D-M LVLD-2LCGLTB LVLD-2L-D-TB	180 minutes	3 H 3 – 33	479 – 100	40	6,4 V; 3,2 Ah	<b>EL-T</b>

MVLD-2L-CGL MVLD-2L-CGL-C MVLD-2L-CGL-J MVLD-2L-CGL-M MVLD-2L-D MVLD-2L-D-C MVLD-2L-D-J MVLD-2L-D-M MVLD-2LCGLTB MVLD-2L-D-TB	180 minutes	3 H 20 – 55	128 – 50	60	6,4 V; 3,2 Ah	<b>EL-T</b>
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HVLD-2L-CGL HVLD-2L-CGL-C HVLD-2L-CGL-J HVLD-2L-CGL-M HVLD-2L-D HVLD-2L-D-C HVLD-2L-DL-J HVLD-2L-D-M HVLD-2LCGLTB HVLD-2L-D-TB	180 minutes	3 H 40 – 180	54 – 13	200	6,4 V; 3,2 Ah	<b>EL-T</b>
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Additional information common to all models:

Connection to supply	Screwless terminal block 0,5...1,5 mm <sup>2</sup>
Connection to output	Screwless terminal block 0,5...1,5 mm <sup>2</sup>
Transformer insulation class.....:	130
PTI.....:	≥ 600 V
Pollution degree.....:	normal pollution
Overheating protection.....:	

Controlgear insulation					
Insulation	Mains	CGL + / CGL + DALI / DALI	LED B / LED R	IN / OUT	Battery
<b>Mains</b>		Supplementary	Double	Double	Double
<b>CGL + / CGL +</b>	Supplementary		Supplementary	Basic	Basic
<b>LED B / LED R</b>	Double	Supplementary		Functional	Functional

<b>IN / OUT</b>	Double	Basic	Functional		Functional
<b>Battery</b>	Double	Basic	Functional	Functional	