

CERTIFICATE

Issued to:
Applicant:

COOPER UNIVEL S.A.
88 Thessaloniki Street
P.O.BOX 48, 60100 Katerini Greece

Manufacturer/Licensee:

Cooper Csa Srl
Via San Bovio,3 – Edificio Y
20090 Segrate (MI) - ITALY

Product(s) : battery supplied electronic ballast for emergency lighting

Trade name(s) : **EATON**, **EATON**, **EATON**, **EATON**
JSB, Crompton, MENVIER

Type(s)/model(s) : LVLD – MVLD – HVLD 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
EN 61347-1:2008 + A1:2011 + A2:2013
- 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 KEMA-KEUR certification mark.

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

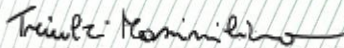
This certificate is issued on: 29 July, 2016 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 3504864.01

DEKRA Certification B.V.



drs. G.J. Zoetbrood
Managing Director



Massimiliano Triulzi
Certification Manager

© Integral publication of this certificate is allowed

All testing, inspection, auditing and certification activities of the former KEMA Quality are an integral part of the DEKRA Certification Group.

ACCREDITED BY
THE DUTCH COUNCIL
FOR ACCREDITATION



SPECIFICATION OF THE CERTIFIED PRODUCT

Models	Classification		V _{in} V	Hz	I _{in} mA	PF λ	t _a (°C)	t _c (°C)	IP XX
LVL4-4AA LVL4-4AA-C LVL4-4AA-J LVL4-4AA-M	Built-in	SELV	230	50/60	20	0,50C	5 - 40	60	20
LVL4-4AA-TB	Built-in	SELV	230	50/60	20	0,50C	5 - 40	60	20

LVL3-3CS LVL3-3CS-C LVL3-3CS-J LVL3-3CS-M	Built-in	SELV	230	50/60	30	0,50C	5 - 40	60	20
LVL3-3CS-TB	Built-in	SELV	230	50/60	30	0,50C	5 - 40	60	20

MVL4-4AA MVL4-4AA-C MVL4-4AA-J MVL4-4AA-M	Built-in	SELV	230	50/60	20	0,50C	5 - 40	60	20
MVL4-4AA-TB	Built-in	SELV	230	50/60	20	0,50C	5 - 40	60	20

MVL3-4CS MVL3-4CS-C MVL3-4CS-J MVL3-4CS-M	Built-in	SELV	230	50/60	30	0,50C	5 - 40	60	20
MVL3-4CS-TB	Built-in	SELV	230	50/60	30	0,50C	5 - 40	60	20

HVL4-4AA HVL4-4AA-C HVL4-4AA-J HVL4-4AA-M	Built-in	—	230	50/60	20	0,50C	5 - 40	60	20
HVL4-4AA-TB	Built-in	—	230	50/60	20	0,50C	5 - 40	60	20

HVL3-5CS HVL3-5CS-C HVL3-5CS-J HVL3-5CS-M	Built-in	—	230	50/60	30	0,50C	5 - 40	60	20
HVL3-5CS-TB	Built-in	—	230	50/60	30	0,50C	5 - 40	60	20

Models	Rated duration	Vout operating (V)	Iout operating (mA)	U-OUT V	Battery NiCd	Type controlgear
LVLD-4AA LVLD-4AA-C LVLD-4AA-J LVLD-4AA-M LVLD-4AA-TB	60 minutes	1 H 3 – 33 CV 12	340 – 50 150 max	40	4,8 V; 0,8 Ah	EL
LVLD-3CS LVLD-3CS-C LVLD-3CS-J LVLD-3CS-M LVLD-3CS-TB	60 minutes	1 H 3 – 33 CV 12	700 – 80 240 max	40	3,6 V; 1,7 Ah	EL
MVLD-4AA MVLD-4AA-C MVLD-4AA-J MVLD-4AA-M MVLD-4AA-TB	60 minutes	1 H 20 – 55 CV 24	86 – 28 75 max	60	4,8 V; 0,8 Ah	EL
MVLD-4CS MVLD-4CS-C MVLD-4CS-J MVLD-4CS-M MVLD-4CS-TB	60 minutes	1 H 20 – 55 CV 24	180 – 60 155 max	60	4,8 V; 1,7 Ah	EL
HVLD-4AA HVLD-4AA-C HVLD-4AA-J HVLD-4AA-M HVLD-4AA-TB	60 minutes	1 H 40 – 180 CV 48	40 – 7 37 max	200	4,8 V; 0,8 Ah	EL

Models	Rated duration	Vout operating (V)	Iout operating (mA)	U-OUT V	Battery NiCd	Type controlgear
HVLD-5CS HVLD-5CS-C HVLD-5CS-J HVLD-5CS-M HVLD-5CS-TB	60 minutes	1 H 40 – 180 CV 48	104 – 24 90 max	200	6 V; 1,7 Ah	EL

Additional information common to all models:


Connection to supply Screwless terminal block 0,5...1,5 mm²

Connection to output Screwless terminal block 0,5...1,5 mm²

Transformer insulation class.....: 130

PTI.....: ≥ 600 V

Pollution degree.....: normal pollution

Overheating protection.....: 

TESTS**Test requirements**

EN 61347-2-7:2012

EN 61347-1:2008 + A1:2011 + A2:2013

Remarks

This ENEC Certificate replaces ENEC Certificate 3504541.01 dated 23 May, 2016.

This certificate contains only for version with rated duration 60 minutes, and including the new trade marks:

**Test results**

The test results and critical components list are laid down in DEKRA test reports No. 3504864.50

Conclusions

The examination proved that all test requirements were met.

Tested by : Massimo Banchelli

Checked by : Franco Vasta

Factory-Location

COOPER INDUSTRIES ROMANIA S.R.L.

Zona Industrială NV

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310350 Arad

Romania