

CERTIFICATE

Issued to:
Applicant:
HEP Tech Co., Ltd.
No. 20, Jingke 7th Rd., Nantun Dist.,
40852 Taichung City, Taiwan

Licensee:
HEP GmbH
Ramsloh 10
58579 Schalksmühle, Germany

Product : Current controlled LED Driver
Trade name(s) : HEP GROUP®
Type(s)/model(s) : LBDC20W500CALR and LLDC12W700CALR-Z

The product and any acceptable variation thereto as 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 EN 61347-1:2015, EN 61347-1:2015/A1:2021, EN 61347-2-13:2014, EN 61347-2-13:2014/A1:2017 and EN IEC 62384:2020
- an inspection of the factory location according to CENELEC Operational Document CIG 021
- a DEKRA certification agreement with the number 2013493

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

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

This certificate is issued on 20 February 2024 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 88-136512

DEKRA Certification B.V.



B.T.M. Holtus
Managing Director



K. Lin
Certification Manager

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SPECIFICATION OF THE CERTIFIED PRODUCT**Product data**

Product	: Current controlled LED Driver
Trade name(s)	: HEP GROUP®
Type(s)/model(s)	: LBDC20W500CALR and LLDC12W700CALR-Z
Rated supply voltage	: 220–240 Vac
Supply frequency	: 50-60 Hz
Ambient temperature range (ta)	: -20...+50°C
Degree of protection	: IP20

Product data – type LBDC20W500CALR

Total circuit power	: 23,8 W
Rated supply current	: 120 mA
Power factor	: 0,4–0,94C
Rated output current/power	: 150 mA / 1,8–7,5 W; 200 mA / 1,2–10 W 250 mA / 1,5–12,5 W; 300 mA / 1,8–15 W 350 mA / 2,1–17,5 W; 400 mA / 2,4–16,8 W 450 mA / 2,7–18,9 W; 500 mA / 3–20 W
Output voltage range	: 6–50 Vdc
Uout	: 60 V
Max. case temperature (tc)	: 90 °C
Protection class	: built-in controlgear with double or reinforced insulation or independent Class II with mounted strain relief
Classification of installation	: built-in or independent

Product data – type LLDC12W700CALR-Z

Total circuit power	: 11,9 W
Rated supply current	: 80 mA
Power factor	: 0,4–0,92C
Rated output current/power	: 350 mA / 1,1–8,4 W; 500 mA / 1,5–12 W 550 mA / 1,7–12,1 W; 700 mA / 2,1–11,9 W
Output voltage range	: 3–24 Vdc
Uout	: 32 V
Max. case temperature (tc)	: 85 °C
Protection class	: II
Classification of installation	: independent

TESTS**Test requirements**

EN 61347-1:2015
EN 61347-1:2015/A1:2021
EN 61347-2-13:2014
EN 61347-2-13:2014/A1:2017
EN IEC 62384:2020

Test result

The test results are laid down in DEKRA test file 343281400.

Additional information

The LED controlgear is a SELV controlgear with double or reinforced insulation for LEDs with constant current.

The driver LLDC12W700CALR-Z is an independent Class II type.

The driver LBDC20W500CALR is an built-in type, by adding the strain relief the driver can be used as independent type (Class II). The built-in LED controlgear can be used inside of luminaires.

It is a DALI-2 (DT6) dimmable LED Driver and the output current is adjustable by Jumper (LLDC) or DIP-switch (LBDC).

The insulation between primary and secondary is SELV and between primary and housing is considered as double insulation. The insulation between DALI and primary circuit is basis insulated and to the secondary circuit is double or reinforced insulation. The controlgear has screwless terminals. The max. enclosure temperature under abnormal or fault conditions is 110°C.

The list of components is laid down in test report 3432814.50.

Conclusion

The examination proved that all requirements were met.

Factory locations

HEP GmbH
Ramsloh 10
58579 Schalksmühle, Germany

Weisen Electronic Co. Ltd.
No. 3 Yangchun Rd., Jinwan Dist.
519040 Zhuhai City Guangdong, China