

CERTIFICATE

Issued to:
Applicant:
HEP Tech Co. Ltd.
No. 20, Jingke 7th Rd., Nantun Dist.,
408 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) : LBC10W300CALR-1C UNI, LBC10W700CALR-1C UNI,
LBC20W700CALR-1C UNI and LBC20W700CALR UNI

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(s) EN 61347-1:2015, EN 61347-1:2015/A1:2021, EN 61347-2-13:2014, EN 61347-2-13:2014/A1:2017, EN 62384:2006 and EN 62384:2006/A1:2009
- an inspection of the factory location according to CENELEC Operational Document CIG 021
- a DEKRA certification agreement with the number 2013493

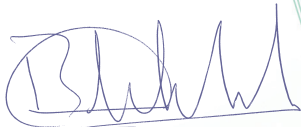
DEKRA hereby grants the right to use the ENEC certification mark.

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.

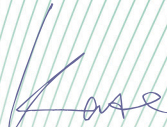
This certificate is issued on 9 November 2021 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 88-121178

DEKRA Certification B.V.



B.T.M. Holtus
Managing Director



K Xu
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)	: LBC10W300CALR-1C UNI, LBC10W700CALR-1C UNI, LBC20W700CALR-1C UNI and LBC20W700CALR UNI
Rated supply voltage	: 120–277 V
Nature of supply	: ac
Supply frequency	: 50-60 Hz
Power factor	: 0,9 C
Classification / Protection class	: built-in controlgear or Class II controlgear with additional strain relief
Degree of protection	: IP 20

Product data – type LBC10W300CALR-1C UNI

Rated supply current	: 140 mA max.
Total circuit power	: 15,1 W
Ambient temperature range	: ta = -20...+60 °C
Rated output current/power	: 200 mA / 5,2–8,4 W, 250 mA / 6,5–10,5 W 280 mA / 7,3–11,7 W, 300 mA / 7,8–12,6 W
Output voltage range	: 26–42 Vdc
Uout	: 48 V
Max. case temperature (tc)	: 80 °C

Product data – type LBC10W700CALR-1C UNI

Rated supply current	: 120 mA max.
Total circuit power	: 13,0 W
Ambient temperature range	: ta = -20...+60 °C
Rated output current/power	: 350 mA / 5,3–10,1 W, 500 mA / 7,5–10 W 550 mA / 8,3–9,9 W, 700 mA / 4,2–9,1 W
Output voltage range	: 6–29 Vdc
Uout	: 48 V
Max. case temperature (tc)	: 90 °C

Product data – type LBC20W700CALR UNI

Rated supply current	: 230 mA max.
Total circuit power	: 24,8 W
Ambient temperature range	: ta = -20...+50 °C
Rated output current/power	: 350 mA / 6,3–19,5 W, 500 mA / 9–20 W 700 mA / 12,6–19,6 W
Output voltage range	: 18–55,7 Vdc
Uout	: 63 V
Max. case temperature (tc)	: 85 °C

Product data – type LBC20W700CALR-1C UNI

Rated supply current	: 230 mA max.
Total circuit power	: 24,8 W
Ambient temperature range	: ta = -20...+50 °C
Rated output current/power	: 350 mA / 6,3–18,2 W, 500 mA / 9–20 W 550 mA / 9,9–19,8 W, 700 mA / 12,6–19,6 W
Output voltage range	: 18–52 Vdc
Uout	: 60 V
Max. case temperature (tc)	: 90 °C

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 62384:2006
EN 62384:2006/A1:2009

Test result

The test results are laid down in DEKRA test file 342469600.

Additional information

The LED controlgear is a SELV controlgear with double or reinforced insulation for LEDs with constant current. The driver is an built-in type, by adding the strain relief the driver can be used as independent type (Class II). The LED controlgear with "-1C" in the type designation is dimmable with 1-10V. The output current is selectable with a DIP-switch. The insulation between primary and secondary is SELV and between primary and housing is considered as double/reinforced insulation. The insulation between 1-10V control input (-1C) and primary circuit is basic isolated and to the secondary circuit is supplementary insulated. 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 3424696.50.

Conclusion

The examination proved that all requirements were met.

Factory locations

HEP GmbH
Ramsloh 10
58579 Schalksmühle, Germany

Weisen Electronic Co. Ltd.
Sanzao Ind. Park of Zhuhai Zhuhai City
511450 Guangdong Province Guangdong, China