

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) : LTC40W1000CALR-1C UNI, LTC40W1000CALR UNI,
LTC40W1400CALR-1C UNI, LTC40W1400CALR UNI,
LTC60W1100CALR-1C UNI, LTC60W1100CALR UNI,
LTC60W1500CALR-1C UNI and LTC60W1500CALR 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 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

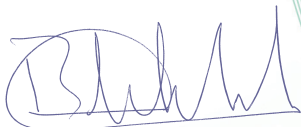
DEKRA hereby grants the right to use the ENEC certification mark.

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 15 June 2022 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 88-124158

DEKRA Certification B.V.



B.T.M. Holtus
Managing Director



C. Nitschke
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)	: LTC40W1000CALR-1C UNI, LTC40W1000CALR UNI, LTC40W1400CALR-1C UNI, LTC40W1400CALR UNI, LTC60W1100CALR-1C UNI, LTC60W1100CALR UNI, LTC60W1500CALR-1C UNI and LTC60W1500CALR UNI
Rated supply voltage	: 120-277 Vac
Supply frequency	: 50-60 Hz
Ambient temperature (ta)	: -20...+50 °C
Protection degree	: IP 20

Product data – type LTC40W1000CALR UNI

Rated supply current	: 430 mA max.
Power factor	: 0,6–0,9 C
Total circuit power	: 46,5 W max.
Rated output current/power	: 700 mA / 14–36,4 W 900 mA / 18–39,6 W 1000 mA / 20–40 W
Output voltage range	: 20–52 Vdc
Uout	: 65 V
Max. case temperature (tc)	: 85 °C

Product data – type LTC40W1000CALR-1C UNI

Rated supply current	: 430 mA max.
Power factor	: 0,6–0,9 C
Total circuit power	: 46,5 W max.
Rated output current/power	: 700 mA / 7–33,6 W, 800 mA / 8–38,4 W 900 mA / 9–39,6 W 1000 mA / 10–40 W
Output voltage range	: 10–48 Vdc
Uout	: 60 V
Max. case temperature (tc)	: 85 °C

Product data – type LTC40W1400CALR UNI

Rated supply current	: 430 mA max.
Power factor	: 0,7–0,9 C
Total circuit power	: 46,5 W max.
Rated output current/power	: 1100 mA / 15,4–39,6 W 1200 mA / 16,8–39,6 W 1400 mA / 19,6–40,6 W
Output voltage range	: 14–36 Vdc
Uout	: 53 V
Max. case temperature (tc)	: 85 °C

Product data – type LTC40W1400CALR-1C UNI

Rated supply current	: 430 mA max.
Power factor	: 0,7–0,9 C
Total circuit power	: 46,5 W max.

Rated output current/power : 1100 mA / 11–39,6 W
1200 mA / 12–39,6 W
1300 mA / 13–40,3 W
1400 mA / 14–40,6 W
Output voltage range : 10–36 Vdc
U_{out} : 53 V
Max. case temperature (tc) : 85 °C

Product data – type LTC60W1100CALR UNI

Rated supply current : 600 mA max.
Power factor : 0,6–0,9 C
Total circuit power : 64,8 W max.
Rated output current/power : 900 mA / 18–43,2 W
1000 mA / 20–48 W
1100 mA / 22–52,8 W
Output voltage range : 20–48 Vdc
U_{out} : 65 V
Max. case temperature (tc) : 90 °C

Product data – type LTC60W1100CALR-1C UNI

Rated supply current : 600 mA max.
Power factor : 0,6–0,9 C
Total circuit power : 64,8 W max.
Rated output current/power : 950 mA / 9,5–45,6 W
1000 mA / 10–48 W
1050 mA / 10,5–50,4 W
1100 mA / 11–52,8 W
Output voltage range : 10–48 Vdc
U_{out} : 65 V
Max. case temperature (tc) : 90 °C

Product data – type LTC60W1500CALR UNI

Rated supply current : 660 mA max
Power factor : 0,6–0,9 C
Total circuit power : 71,3 W max.
Rated output current/power : 1200 mA / 30–50,4 W
1400 mA / 35–58,5 W
1500 mA / 37,5–60 W
Output voltage range : 25–42 Vdc
U_{out} : 60 V
Max. case temperature (tc) : 90 °C

Product data – type LTC60W1500CALR-1C UNI

Rated supply current : 660 mA max
Power factor : 0,6–0,9 C
Total circuit power : 71,3 W max.
Rated output current/power : 1200 mA / 12–50,4 W
1300 mA / 13–54,6 W
1400 mA / 14–58,8 W
1500 mA / 15–60 W
Output voltage range : 10–42 Vdc
U_{out} : 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 IEC 62384:2020

Test result

The test results are laid down in DEKRA test file 342583700.

Additional information

The LED controlgear is a SELV controlgear with double or reinforced insulation for LEDs with constant current. The driver is a 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 3425837.50.

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