

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 dimmable independent LED Driver
Trade name(s) : HEP GROUP®
Type(s)/model(s) : LEDC30W1050NLR-Z, LEDC30W1050NLR-Z-W, LEDC45W1050NLR-Z,
LEDC45W1050NLR-Z-D4I, LEDC45W1050NLR-Z-W, LEDC60W1750NLR-Z,
LEDC60W1750NLR-Z-D4I and LEDC60W1750NLR-Z-W

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

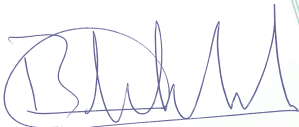
DEKRA hereby grants the right to use the ENEC certification mark.

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 31 January 2024 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 88-133850

DEKRA Certification B.V.



B.T.M. Holtus
Managing Director



Miranda Zhou
Certification Manager

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SPECIFICATION OF THE CERTIFIED PRODUCT**Product data**

Product	: Current controlled dimmable independent LED Driver
Trade name(s)	: HEP GROUP®
Type(s)/model(s)	: LEDC30W1050NLR-Z, LEDC30W1050NLR-Z-W, LEDC45W1050NLR-Z, LEDC45W1050NLR-Z-D4I, LEDC45W1050NLR-Z-W, LEDC60W1750NLR-Z, LEDC60W1750NLR-Z-D4I and LEDC60W1750NLR-Z-W
Rated supply voltage	: 220-240 Vac
Supply frequency	: 0/50-60 Hz
Protection Class	: II
Degree of protection	: IP20
Classification of installation	: independent

Product data – type LEDC30W1050NLR-Z

Supply current	: 170 mA
Power factor	: 0,5C–0,97
Rated output current	: 150-1050 mA
Rated output power	: 2,3-30 W
Rated output voltage	: 10-54 Vdc
Uout	: 60 V
Max. case temperature (tc)	: 85 °C
Ambient temperature (ta)	: -20...+50 °C

Product data – type LEDC30W1050NLR-Z-W

Supply current	: 170 mA
Power factor	: 0,5C–0,97
Rated output current	: 150-1050 mA
Rated output power	: 2,3-30 W
Rated output voltage	: 10-54 Vdc
Uout	: 60 V
Max. case temperature (tc)	: 85 °C
Ambient temperature (ta)	: -20...+50 °C

Product data – type LEDC45W1050NLR-Z

Supply current	: 240 mA
Power factor	: 0,45C–0,98
Rated output current	: 350-1050 mA
Rated output power	: 3,5-45 W
Rated output voltage	: 10-54 Vdc
Uout	: 60 V
Max. case temperature (tc)	: 80 °C
Ambient temperature (ta)	: -20...+50 °C

Product data – type LEDC45W1050NLR-Z-D4I

Supply current	: 240 mA
Power factor	: 0,45C–0,98
Rated output current	: 350-1050 mA
Rated output power	: 3,5-45 W
Rated output voltage	: 10-54 Vdc
Uout	: 60 V
Max. case temperature (tc)	: 80 °C
Ambient temperature (ta)	: -20...+50 °C

Product data – type LEDC45W1050NLR-Z-W

Supply current	: 240 mA
Power factor	: 0,45C–0,98
Rated output current	: 350-1050 mA
Rated output power	: 3,5-45 W
Rated output voltage	: 10-54 Vdc
Uout	: 60 V
Max. case temperature (tc)	: 80 °C
Ambient temperature (ta)	: -20...+50 °C

Product data – type LEDC60W1750NLR-Z

Supply current	: 320 mA
Power factor	: 0,85C–0,98
Rated output current	: 900-1750 mA
Rated output power	: 18-60 W
Rated output voltage	: 20-50 Vdc
Uout	: 60 V
Max. case temperature (tc)	: 80 °C
Ambient temperature (ta)	: -20...+50 °C (OCR ≤ 1500 mA) -20...+45 °C (OCR > 1500 mA)

Product data – type LEDC60W1750NLR-Z-D4I

Supply current	: 320 mA
Power factor	: 0,85C–0,98
Rated output current	: 900-1750 mA
Rated output power	: 18-60 W
Rated output voltage	: 20-50 Vdc
Uout	: 60 V
Max. case temperature (tc)	: 80 °C
Ambient temperature (ta)	: -20...+50 °C (OCR ≤ 1500 mA) -20...+45 °C (OCR > 1500 mA)

Product data – type LEDC60W1750NLR-Z-W

Supply current	: 320 mA
Power factor	: 0,85C–0,98
Rated output current	: 900-1750 mA
Rated output power	: 18-60 W
Rated output voltage	: 20-50 Vdc
Uout	: 60 V
Max. case temperature (tc)	: 80 °C
Ambient temperature (ta)	: -20...+50 °C (OCR ≤ 1500 mA) -20...+45 °C (OCR > 1500 mA)

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 343213100.

Additional information

The LED controlgear is an independent SELV controlgear for LEDs with constant current. The LED controlgear is dimmable via DALI interface. The types with –W in the type designation are also dimmable by wireless function. The D4I types have an integrated SELV DALI bus power supply. The output current is adjustable by NFC function. The insulation between primary and secondary is reinforced/double insulation (SELV) and between primary and housing is considered as double insulation. The –Z and –W types have a basic insulation between DALI and primary circuit; the D4I types have a reinforced/double insulation to the primary circuit. All types are double isolated between DALI circuit and secondary circuit. 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 3432131.50.

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