

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 : Voltage controlled LED Driver
Trade name(s) : HEP GROUP®
Type(s)/model(s) : LBV12W12-Z UNI, LBV12W24-Z UNI, LBV12W48-Z UNI, LBV15W12-Z UNI,
LBV15W24-Z UNI, LBV20W24VA-Z, LBV40W12-Z, LBV40W24-Z,
LBV4W12 UNI, LBV4W24 UNI, LBV60W24-Z, LBV60W48-Z, LBV6W12-Z UNI,
LBV6W24-Z UNI and LBV6W48-Z 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

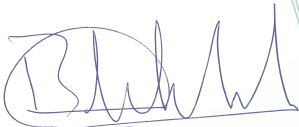
DEKRA hereby grants the right to use the ENEC certification mark.

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 25 August 2022 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 88-125028

DEKRA Certification B.V.



B.T.M. Holtus
Managing Director



R Zhou
Certification Manager

© Integral publication of this certificate is allowed

ACCREDITED BY THE
DUTCH ACCREDITATION
COUNCIL



SPECIFICATION OF THE CERTIFIED PRODUCT**Product data**

Product	: Voltage controlled LED Driver
Trade name(s)	: HEP GROUP®
Type(s)/model(s)	: LBV12W12-Z UNI, LBV12W24-Z UNI, LBV12W48-Z UNI, LBV15W12-Z UNI, LBV15W24-Z UNI, LBV20W24VA-Z, LBV40W12-Z, LBV40W24-Z, LBV4W12 UNI, LBV4W24 UNI, LBV60W24-Z, LBV60W48-Z, LBV6W12-Z UNI, LBV6W24-Z UNI and LBV6W48-Z UNI
Nature of supply	: ac
Rated frequency	: 50-60 Hz
Degree of protection	: IP20

Product data – type LBV12W12-Z UNI

Rated input range	: 100-240 V
Supply current	: 150 mA max.
Power factor range	: 0,4–0,9 C
Rated output voltage	: 12 Vdc
Rated output current	: 1000 mA max.
Rated output power	: 0-12,0 W
Temperature range	: -20...+50 °C
Max. case temperature	: tc = 80 °C
Classification of installation	: Independent
Protection class	: II

Product data – type LBV12W24-Z UNI

Rated input range	: 100-240 V
Supply current	: 150 mA max.
Power factor range	: 0,3–0,9 C
Rated output voltage	: 24 Vdc
Rated output current	: 500 mA max.
Rated output power	: 0-12,0 W
Temperature range	: -20...+50 °C
Max. case temperature	: tc = 75 °C
Classification of installation	: Independent
Protection class	: II

Product data – type LBV12W48-Z UNI

Rated input range	: 100-240 V
Supply current	: 150 mA max.
Power factor range	: 0,2–0,9 C
Rated output voltage	: 48 Vdc
Rated output current	: 250 mA max.
Rated output power	: 0-12,0 W
Temperature range	: -20...+50 °C
Max. case temperature	: tc = 75 °C
Classification of installation	: Independent
Protection class	: II

Product data – type LBV15W12-Z UNI

Rated input range	: 120-240 V
Supply current	: 170 mA max.
Power factor range	: 0,15–0,9 C

Rated output voltage	: 12 Vdc
Rated output current	: 1250 mA max.
Rated output power	: 0-15,0 W
Temperature range	: -20...+45 °C
Max. case temperature	: tc = 75°C
Classification of installation	: Independent
Protection class	: II

Product data – type LBV15W24-Z UNI

Rated input range	: 120-240 V
Supply current	: 170 mA max.
Power factor range	: 0,2–0,9 C
Rated output voltage	: 24 Vdc
Rated output current	: 625 mA max.
Rated output power	: 15,0 W
Temperature range	: -20...+45 °C
Max. case temperature	: tc = 75°C
Classification of installation	: Independent
Protection class	: II

Product data – type LBV20W24VA-Z

Rated input range	: 220-240 V
Supply current	: 110 mA max.
Power factor range	: 0,2C–0,95
Rated output voltage	: 12/24 Vdc
Rated output current	: 1500/833 mA max.
Rated output power	: 0-18,0 W/0-20,0 W
Temperature range	: -20...+45 °C
Max. case temperature	: tc = 75 °C
Classification of installation	: Independent
Protection class	: II

Product data – type LBV40W12-Z

Rated input range	: 220-240 V
Supply current	: 220 mA max.
Power factor range	: 0,1C–0,95
Rated output voltage	: 12,0 Vdc
Rated output current	: 3330 mA max.
Rated output power	: 0-40,0 W
Temperature range	: -20...+50 °C
Max. case temperature	: tc = 85°C
Classification of installation	: Independent
Protection class	: II

Product data – type LBV40W24-Z

Rated input range	: 220-240 V
Supply current	: 220 mA max.
Power factor range	: 0,1C–0,95
Rated output voltage	: 24,0 Vdc
Rated output current	: 1660 mA max.
Rated output power	: 0-40,0 W
Temperature range	: -20...+50 °C
Max. case temperature	: tc = 85°C
Classification of installation	: Independent

Protection class : II

Product data – type LBV4W12 UNI

Rated input voltage : 100-240 V
Supply current : 60 mA max.
Power factor range : 0,3–0,9 C
Rated output voltage : 12 Vdc
Rated output current : 333 mA max.
Rated output power : 0-4,0 W
Temperature range : -20...+50 °C
Max. case temperature : tc = 65 °C
Classification of installation : Built-in

Product data – type LBV4W24 UNI

Rated input voltage : 100-240 V
Supply current : 60 mA max.
Power factor range : 0,3–0,9 C
Rated output voltage : 24 Vdc
Rated output current : 166 mA max.
Rated output power : 0-4,0 W
Temperature range : -20...+50 °C
Max. case temperature : tc = 65 °C
Classification of installation : Built-in

Product data – type LBV60W24-Z

Rated input range : 220-240 V
Supply current : 310 mA max.
Power factor range : 0,1C–0,95
Rated output voltage : 24,0 Vdc
Rated output current : 2500 mA max.
Rated output power : 0-60,0 W
Temperature range : -20...+45 °C
Max. case temperature : tc = 85 °C
Classification of installation : Independent
Protection class : II

Product data – type LBV60W48-Z

Rated input range : 220-240 V
Supply current : 310 mA max.
Power factor range : 0,1C–0,95
Rated output voltage : 48,0 Vdc
Rated output current : 1250 mA max.
Rated output power : 0-60,0 W
Temperature range : -20...+45 °C
Max. case temperature : tc = 90 °C
Classification of installation : Independent
Protection class : II

Product data – type LBV6W12-Z UNI

Rated input range : 100-240 V
Supply current : 75 mA max.
Power factor range : 0,3–0,9 C
Rated output voltage : 12 Vdc

Rated output current	: 500 mA max.
Rated output power	: 0-6,0 W
Temperature range	: -20...+50 °C
Max. case temperature	: tc = 75 °C
Classification of installation	: Independent
Protection class	: II

Product data – type LBV6W24-Z UNI

Rated input range	: 100-240 V
Supply current	: 75 mA max.
Power factor range	: 0,25–0,9 C
Rated output voltage	: 24 Vdc
Rated output current	: 250 mA max
Rated output power	: 0-6,0 W
Temperature range	: -20...+50 °C
Max. case temperature	: tc = 70 °C
Classification of installation	: Independent
Protection class	: II

Product data – type LBV6W48-Z UNI

Rated input range	: 100-240 V
Supply current	: 75 mA max.
Power factor range	: 0,3–0,9 C
Rated output voltage	: 48 Vdc
Rated output current	: 125 mA max.
Rated output power	: 0-6,0 W
Temperature range	: -20...+50 °C
Max. case temperature	: tc = 70 °C
Classification of installation	: Independent
Protection class	: II

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 342724100.

Additional information

The LED controlgear are independent Class II or built-in electronic controlgear with double or reinforced insulation. The drivers are for LEDs with constant voltage. The insulation between primary and secondary is SELV and between primary and housing is considered as double 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 3427241.50.

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