

CERTIFICATE

Issued to:
Applicant:
HEP Tech Co. Ltd.
20 Jingke 7th Rd Nantun Dist
408 Taichung, 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, 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 EN 61347-1:2015, 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 production location according to CENELEC Operational Document CIG 021
- a certification agreement with the number 2013493

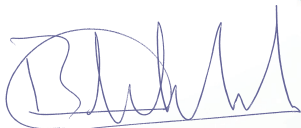
DEKRA hereby grants the right to use the ENEC certification mark.

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

This certificate is issued on 23 November 2020 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 88-116460

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	: 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, LBV6W12-Z UNI, LBV6W24-Z UNI and LBV6W48-Z UNI
Nature of supply	: ac
Rated frequency	: 50-60 Hz

Product data – type LBV12W12-Z UNI

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

Product data – type LBV12W24-Z UNI

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

Product data – type LBV12W48-Z UNI

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

Product data – type LBV15W12-Z UNI

Rated input range	: 120-240 V
Supply current	: 170 mA
Power factor	: 0,9 C
Rated output voltage	: 12 Vdc
Rated output current	: 1250 mA
Rated output power	: 15,0 W
Temperature range	: -20...+45 °C
Max. case temperature	: tc = 75°C

Classification of installation : Independent

Product data – type LBV15W24-Z UNI

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

Product data – type LBV20W24VA-Z

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

Product data – type LBV40W12-Z

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

Product data – type LBV40W24-Z

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

Product data – type LBV4W12 UNI

Rated input voltage : 100-240 V
Supply current : 60 mA
Power factor : 0,9 C
Rated output voltage : 12 Vdc
Rated output current : 332 mA
Rated output power : 4,0 W
Temperature range : -20...+50 °C

Max. case temperature : $t_c = 65\text{ }^\circ\text{C}$
Classification of installation : Built-in

Product data – type LBV4W24 UNI

Rated input voltage : 100-240 V
Supply current : 60 mA
Power factor : 0,9 C
Rated output voltage : 24 Vdc
Rated output current : 166 mA
Rated output power : 4,0 W
Temperature range : $-20\dots+50\text{ }^\circ\text{C}$
Max. case temperature : $t_c = 65\text{ }^\circ\text{C}$
Classification of installation : Built-in

Product data – type LBV60W24-Z

Rated input range : 220-240 V
Supply current : 310 mA
Power factor : 0,95
Rated output voltage : 24,0 Vdc
Rated output current : 2500 mA
Rated output power : 60,0 W
Temperature range : $-20\dots+45\text{ }^\circ\text{C}$
Max. case temperature : $t_c = 85\text{ }^\circ\text{C}$
Classification of installation : Independent

Product data – type LBV6W12-Z UNI

Rated input range : 100-240 V
Supply current : 75 mA
Power factor : 0,9 C
Rated output voltage : 12 Vdc
Rated output current : 500 mA
Rated output power : 6,0 W
Temperature range : $-20\dots+50\text{ }^\circ\text{C}$
Max. case temperature : $t_c = 75\text{ }^\circ\text{C}$
Classification of installation : Independent

Product data – type LBV6W24-Z UNI

Rated input range : 100-240 V
Supply current : 75 mA
Power factor : 0,9 C
Rated output voltage : 24 Vdc
Rated output current : 250 mA
Rated output power : 6,0 W
Temperature range : $-20\dots+50\text{ }^\circ\text{C}$
Max. case temperature : $t_c = 70\text{ }^\circ\text{C}$
Classification of installation : Independent

Product data – type LBV6W48-Z UNI

Rated input range : 100-240 V
Supply current : 75 mA
Power factor : 0,9 C
Rated output voltage : 48 Vdc
Rated output current : 125 mA
Rated output power : 6,0 W

Temperature range : -20...+50 °C
Max. case temperature : tc = 70 °C
Classification of installation : Independent

TESTS

Test requirements

EN 61347-1:2015
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 342033300.

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 3420333.50.

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, China