

# 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) : LAV100W24VS, LAV100W24VS1C, LAV150W24V, LAV150W24V1C,  
LAV30W24V, LAV30W24V1C, LAV60W24V and LAV60W24V1C

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

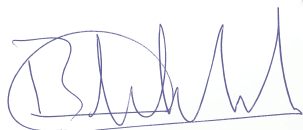
DEKRA hereby grants the right to use the ENEC certification mark.

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 30 July 2020 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 88-114973

DEKRA Certification B.V.



B.T.M. Holtus  
Managing Director



H.R.M. Barends  
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)	: LAV100W24VS, LAV100W24VS1C, LAV150W24V, LAV150W24V1C, LAV30W24V, LAV30W24V1C, LAV60W24V and LAV60W24V1C
Rated input voltage	: 220-240 V
Nature of supply	: ac
Rated frequency	: 50-60 Hz
Temperature range (ta)	: -20...+50°C
Supply connection	: screwless terminals
Rated output voltage	: 24 Vdc

**Product data – type LAV100W24VS**

Rated output current	: 0-4,16 A
Rated output power	: 0-100 W
Max. case temperature (tc)	: 80 °C
Power factor	: 0,95

**Product data – type LAV100W24VS1C**

Rated output current	: 0-4,16 A
Rated output power	: 0-100 W
Max. case temperature (tc)	: 80 °C
Power factor	: 0,95

**Product data – type LAV150W24V**

Rated output current	: 0-6,25 A
Rated output power	: 0-150 W
Max. case temperature (tc)	: 75 °C
Power factor	: 0,98

**Product data – type LAV150W24V1C**

Rated output current	: 0-6,25 A
Rated output power	: 0-150 W
Max. case temperature (tc)	: 75 °C
Power factor	: 0,98

**Product data – type LAV30W24V**

Rated output current	: 0-1,25 A
Rated output power	: 0-30 W
Max. case temperature (tc)	: 75 °C
Power factor	: 0,9 C

**Product data – type LAV30W24V1C**

Rated output current	: 0-1,25 A
Rated output power	: 0-30 W
Max. case temperature (tc)	: 75 °C
Power factor	: 0,9 C

**Product data – type LAV60W24V**

Rated output current	: 0-2,5 A
Rated output power	: 0-60 W
Max. case temperature (tc)	: 80 °C
Power factor	: 0,95

**Product data – type LAV60W24V1C**

Rated output current	: 0-2,5 A
Rated output power	: 0-60 W
Max. case temperature (tc)	: 80 °C
Power factor	: 0,95

**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 341684600.

**Additional information**

The LED controlgear is a built-in SELV controlgear for LEDs with constant output voltage. The LED controlgear can be used inside of luminaires. The insulation between primary and secondary is SELV. The insulation between 1-10 V and primary circuit is double insulated and to the secondary circuit is non-insulation. The controlgear has screwless terminals.

Built-in type, max. enclosure temperature under abnormal or fault conditions 110°C  
Type designation with ...1C = dimmable LED Driver with control input 1–10 Vdc

This certificate replaces certificate No. 3407657.01 which we hereby declare invalid.

The list of components is laid down at test report 3416846.50.

**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  
Guangdong Province, China