

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 : Electronic control gear for fluorescent lamps
Trade name(s) : HEP GROUP
Type(s)/model(s) : ESB114-35, ESB118-40, ESB154-58, ESB180, ESB214-35, ESB218-40,
ESB249 and ESB254-58

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 61347-2-3:2011, EN 61347-2-3:2011/A1:2017, EN 60929:2011 and EN 60929:2011/A1:2016
- an inspection of the production location according to CENELEC Operational Document CIG 021
- a certification agreement with the number 2013493

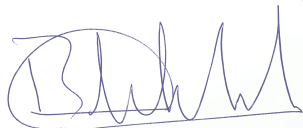
DEKRA hereby grants the right to use the ENEC certification mark.

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.

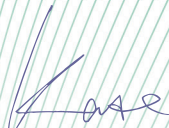
This certificate is issued on 24 January 2019 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 88-106801

DEKRA Certification B.V.



B.T.M. Holtus
Managing Director



K Xu
Certification Manager

© Integral publication of this certificate is allowed

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DUTCH ACCREDITATION
COUNCIL



SPECIFICATION OF THE CERTIFIED PRODUCT**Product data**

Product	: Electronic control gear for fluorescent lamps
Trade name(s)	: HEP GROUP
Type(s)/model(s)	: ESB114-35, ESB118-40, ESB154-58, ESB180, ESB214-35, ESB218-40, ESB249 and ESB254-58
Rated voltage	: 220-240 V
Rated frequency	: 50-60 Hz
Power factor	: 0.98
Temperature range	: -25...+60 °C

TESTS**Test requirements**

EN 61347-1:2015
EN 61347-2-3:2011
EN 61347-2-3:2011/A1:2017
EN 60929:2011
EN 60929:2011/A1:2016

Test result

The test results are laid down in DEKRA test file 340988200.

Additional information

The list of components is laid down at test report 3409882.50.

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

Wujiang Huafeng Electronic Co. Ltd.
No. 120 Zhennan East Road
Zhenze Town
215231 Wujiang City Jiangsu Prov, China

ESB114-35:

In= 70-170 mA, tc= 70°C, U-OUT= 300 V

Lamps: 1 x T5 14/21/28/35 W

ESB214-35:

In= 140-330 mA, tc= 80°C, U-OUT= 430 V

Lamps: 2 x T5 14/21/28/35 W

ESB118-40:

In= 80-190 mA, tc= 70°C, U-OUT= 300 V

Lamps: 1 x T5 24/39 W, 1 x T8 18/25/36 W

1 x TC-L 18/24/36/40 W, 1 x TC-F 18/24/36 W

ESB218-40:

In= 155-370 mA, tc= 75°C, U-OUT= 400 V

Lamps: 2 x T5 24/39 W, 2 x T8 18/25/36 W

2 x TC-L 18/24/36/40 W, 2 x TC-F 18/24/36 W

ESB249:

In= 460 mA, tc= 80°C, U-OUT= 430 V

Lamps: 2 x T5 49 W

ESB154-58:

In= 240-265 mA, tc= 70°C, U-OUT= 300 V

Lamps: 1 x T5 54 W, 1 x T8 58 W, 1 x TC-L 55 W (50W)

ESB254-58:

In= 475-510 mA, tc= 85°C, U-OUT= 400 V

Lamps: 2 x T5 54 W, 2 x T8 58 W, 2 x TC-L 55 W (50W)

ESB180:

In= 260-375 mA, tc= 75°C, U-OUT= 300 V

Lamps: 1 x T5 80 W, 1 x TC-L 55/80 W