

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

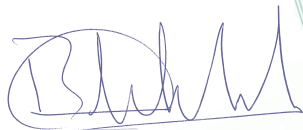
DEKRA hereby grants the right to use the ENEC certification mark.

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 6 April 2023 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 88-106801 REV.1

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           | : 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**

This certificate replaces certificate No. 88-106801 which we hereby declare invalid.

The list of components is laid down in 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.  
No. 3 Yangchun Rd., Jinwan Dist.  
519040 Zhuhai City Guangdong, 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