

# CERTIFICATE

Issued to:  
Applicant:  
**HEP Tech Co. Ltd.**  
**20 Jingke 7th Rd.**  
**Taichung 408, Taiwan**

Manufacturer/Licensee:  
**HEP GmbH**  
**Ramsloh 10**  
**58579 Schalksmühle, Germany**

Product : Electronic ballasts for discharge lamps  
Trade name : HEP GROUP  
Types : SH100GB, SH100GB-Z, SH150GB, SH150GB-Z, SH35GB,  
SH35GB-Z, SH50GB, SH50GB-Z, SH70GB, SH70GB-Z

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 61347-2-12:2005
- 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 KEMA-KEUR certification mark.

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

This certificate is issued on: 10 March 2016 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 3406123.01

DEKRA Certification B.V.



drs. G.J. Zoetbrood  
Managing Director



J. Marggraf  
Certification Manager

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**SPECIFICATION OF THE CERTIFIED PRODUCT****Product data**

product	: Electronic ballasts for discharge lamps
trade name	: HEP GROUP
types	: SH100GB, SH100GB-Z, SH150GB, SH150GB-Z, SH35GB, SH35GB-Z, SH50GB, SH50GB-Z, SH70GB, SH70GB-Z
supply voltage	: 220-240 V
supply current	: see product data per type
nature of supply	: ac/dc
rated frequency	: 0/50-60 Hz
power factor	: see product data per type
rated wattage and lamp	: see product data per type
temperature limit	: -15...+50 °C
ignition voltage	: <5 kV
ignition timeout	: <20 min.
max. case temperature (tc)	: see product data per type
description	: see product data per type

**Additional information**

- max. enclosure temperature in abnormal or under fault conditions 110 °C
- with screw terminals 0,5...2,5 mm<sup>2</sup> or screwless terminals 0,5.1,5 mm<sup>2</sup>

**Product data - type SH100GB**

supply current	: 480 mA (@230 V)
power factor	: 0,95
rated wattage and lamp	: 1x 100 W HID
max. case temperature (tc)	: 65 °C
description	: built-in device

**Product data - type SH100GB-Z**

supply current	: 480 mA (@230 V)
power factor	: 0,95
rated wattage and lamp	: 1x 100 W HID
max. case temperature (tc)	: 65 °C
description	: independent device

**Product data - type SH150GB**

supply current	: 720 mA (@230 V)
power factor	: 0,95
rated wattage and lamp	: 1x 150 W HID
max. case temperature (tc)	: 70 °C
description	: built-in device

**Product data - type SH150GB-Z**

supply current	: 720 mA (@230 V)
power factor	: 0,95
rated wattage and lamp	: 1x 150 W HID
max. case temperature (tc)	: 70 °C
description	: independent device

**Product data - type SH35GB**

supply current	: 200 mA (@230 V)
power factor	: 0,95
rated wattage and lamp	: 1x 35 W HID
max. case temperature (tc)	: 70 °C
description	: built-in device

**Product data - type SH35GB-Z**

supply current	: 200 mA (@230 V)
power factor	: 0,95
rated wattage and lamp	: 1x 35 W HID
max. case temperature (tc)	: 70 °C
description	: independent device

**Product data - type SH50GB**

supply current	: 250 mA (@230 V)
power factor	: 0,97
rated wattage and lamp	: 1x 50 W HID
max. case temperature (tc)	: 70 °C
description	: built-in device

**Product data - type SH50GB-Z**

supply current	: 250 mA (@230 V)
power factor	: 0,97
rated wattage and lamp	: 1x 50 W HID
max. case temperature (tc)	: 70 °C
description	: independent device

**Product data - type SH70GB**

supply current	: 365 mA (@230 V)
power factor	: 0,98
rated wattage and lamp	: 1x 70 W HID
max. case temperature (tc)	: 75 °C
description	: built-in device

**Product data - type SH70GB-Z**

supply current : 365 mA (@230 V)  
power factor : 0,98  
rated wattage and lamp : 1x 70 W HID  
max. case temperature (tc) : 75 °C  
description : independent device

**TESTS****Test requirements**

EN 61347-1:2015  
EN 61347-2-12:2005 + A1:2010

**Test result**

The test results are laid down in DEKRA test file 3406123.00.

**Remarks**

The component list is laid down in test report 3406123.50

**Conclusion**

The examination proved that all test requirements were met.

Tested by : M. Müller



Checked by : T.H.J.M. Michels

**Factory locations**

HEP GmbH  
Ramsloh 10, 58579, Schalksmühle  
Germany

Weisen Electronic Co. Ltd.  
Sanzao Ind. Park of Zhuhai, Guangdong Province  
China