

CERTIFICATE

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

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

Products : Electronic ballasts for discharge lamps
Trade name : HEP GROUP
Types : SH150I, SH150I-Z, SH20M, SH20M-S, SH20M-V, SH20M-Z,
SH250, SH35, SH35-Z, SH35S-Z, SH70, SH70-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: 25 April 2016 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 3406122.02

DEKRA Certification B.V.



drs. G.J. Zoetbrood
Managing Director



J. Marggraf
Certification Manager

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

product	: Electronic ballasts for discharge lamps
trade name	: HEP GROUP
types	: SH150I, SH150I-Z, SH20M, SH20M-S, SH20M-V, SH20M-Z, SH250, SH35, SH35-Z, SH35S-Z, SH70, SH70-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	: see product data per type
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

Product data - type SH150I

supply current	: 700 mA (@230 V)
rated wattage and lamp	: 1 x 150W HID
power factor	: 0,98
ignition voltage	: <5 kV
max. case temperature (tc)	: 85 °C
description	: built-in device with screw or screwless terminals

Product data - type SH150I-Z

supply current	: 700 mA (@230 V)
rated wattage and lamp	: 1 x 150W HID
power factor	: 0,98
ignition voltage	: <5 kV
max. case temperature (tc)	: 85 °C
description	: independent device with screw or screwless terminals

Product data - type SH20M

supply current	: 190 mA (@230 V)
rated wattage and lamp	: 1 x 20W HID
power factor	: 0,55
ignition voltage	: <4 kV
max. case temperature (tc)	: 75 °C
description	: built-in device with free lead wiring

Product data - type SH20M-S

supply current	: 190 mA (@230 V)
rated wattage and lamp	: 1 x 20W HID
power factor	: 0,55
ignition voltage	: <4 kV
max. case temperature (tc)	: 75 °C
description	: built-in device screw terminals

Product data - type SH20M-V

supply current	: 190 mA (@230 V)
rated wattage and lamp	: 1 x 20W HID
power factor	: 0,55
ignition voltage	: <4 kV
max. case temperature (tc)	: 75 °C
description	: built-in device, prim: free lead wiring, sec: screw terminal

Product data - type SH20M-Z

supply current	: 190 mA (@230 V)
rated wattage and lamp	: 1 x 20W HID
power factor	: 0,55
ignition voltage	: <4 kV
max. case temperature (tc)	: tc = 75 °C
description	: independent device with screwless terminals

Product data - type SH250

supply current	: 1200 mA (@230 V)
rated wattage and lamp	: 1 x 250W HID
power factor	: 0,98
ignition voltage	: <5 kV
max. case temperature (tc)	: tc = 75 °C
description	: built-in device with screw or screwless terminals

Product data - type SH35

supply current	: 200 mA (@230 V)
rated wattage and lamp	: 1 x 35W HID
power factor	: 0,98
ignition voltage	: <5 kV
max. case temperature (tc)	: 75 °C
description	: built-in device with screw or screwless terminals

Product data - type SH35-Z

supply current	: 200 mA (@230 V)
rated wattage and lamp	: 1 x 35W HID
power factor	: 0,98
ignition voltage	: <5 kV
max. case temperature (tc)	: 75 °C
description	: independent device with screw or screwless terminals

Product data - type SH35S-Z

supply current	: 200 mA (@230 V)
rated wattage and lamp	: 1 x 35W HID
power factor	: 0,98
ignition voltage	: <5 kV
max. case temperature (tc)	: 70 °C
description	: independent device with screw terminals

Product data - type SH70

supply current	: 365 mA (@230 V)
rated wattage and lamp	: 1 x 70W HID
power factor	: 0,98
ignition voltage	: <5 kV
max. case temperature (tc)	: 75 °C
description	: built-in device with screw or screwless terminals

Product data - type SH70-Z

supply voltage	: 220-240 V
supply current	: 365 mA (@230 V)
rated wattage and lamp	: 1 x 70W HID
power factor	: 0,98
ignition voltage	: <5 kV
max. case temperature (tc)	: 75 °C
description	: independent device with screw or screwless terminals

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 3406122.00.

Remarks

The component list is laid down in test report 3406122.50.

This certificate replaces certificate no. 3406122.01, dated 10 March 2016, due to correction.

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