

# CERTIFICATE

Issued to:  
Applicant:  
**HEP Tech Co. Ltd.**  
No. 20, Jingke 7th Rd., Nantun Dist.,  
408 Taichung City, Taiwan

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

Product : Current controlled built-in or independent LED Driver  
Trade name(s) : HEP GROUP  
Type(s)/model(s) : LSC15W350LRP UNI, LSC15W500LRP UNI, LSC15W700LRP UNI,  
LSC20W250LRP UNI, LSC20W350LRP UNI, LSC20W500LRP UNI,  
LSC20W700LRP UNI, LSC4W200LRP UNI, LSC4W350LRP UNI,  
LSC4W500LRP UNI, LSC4W700LRP UNI, LSC6W350LR-Z UNI,  
LSC6W350LR UNI, LSC6W500LR-Z UNI, LSC6W500LR UNI,  
LSC6W700LR-Z UNI, LSC6W700LR UNI, LSC9W300LRP UNI,  
LSC9W350LRP UNI, LSC9W480LRP UNI, LSC9W500LRP UNI and  
LSC9W700LRP UNI

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

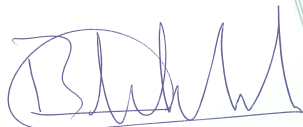
DEKRA hereby grants the right to use the ENEC certification mark.

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 19 January 2021 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 88-116858

DEKRA Certification B.V.



B.T.M. Holtus  
Managing Director



C. Nitschke  
Certification Manager

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

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product                  | : Current controlled built-in or independent LED Driver                                                                                                                                                                                                                                                                                                                                                                     |
| Trade name(s)            | : HEP GROUP                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Type(s)/model(s)         | : LSC15W350LRP UNI, LSC15W500LRP UNI,<br>LSC15W700LRP UNI, LSC20W250LRP UNI,<br>LSC20W350LRP UNI, LSC20W500LRP UNI,<br>LSC20W700LRP UNI, LSC4W200LRP UNI,<br>LSC4W350LRP UNI, LSC4W500LRP UNI,<br>LSC4W700LRP UNI, LSC6W350LR-Z UNI, LSC6W350LR UNI,<br>LSC6W500LR-Z UNI, LSC6W500LR UNI,<br>LSC6W700LR-Z UNI, LSC6W700LR UNI, LSC9W300LRP UNI,<br>LSC9W350LRP UNI, LSC9W480LRP UNI, LSC9W500LRP UNI<br>and LSC9W700LRP UNI |
| Rated supply voltage     | : 100-240 / 100-277 Vac                                                                                                                                                                                                                                                                                                                                                                                                     |
| Supply frequency         | : 50-60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Ambient temperature (ta) | : -20...+50°C                                                                                                                                                                                                                                                                                                                                                                                                               |
| Degree of protection     | : IP 20                                                                                                                                                                                                                                                                                                                                                                                                                     |

**Product data – type LSC15W350LRP UNI**

|                                |               |
|--------------------------------|---------------|
| Rated input voltage            | : 100-277 V   |
| Supply current                 | : 190 mA max. |
| Power factor                   | : 0,9C        |
| Rated output current           | : 350 mA      |
| Rated output power             | : 8,1-15 W    |
| Rated output voltage           | : 23-43 Vdc   |
| Uout                           | : 52 V        |
| Max. case temperature (tc)     | : 85 °C       |
| Classification of installation | : built-in    |

**Product data – type LSC15W500LRP UNI**

|                                |               |
|--------------------------------|---------------|
| Rated input voltage            | : 100-277 V   |
| Supply current                 | : 190 mA max. |
| Power factor                   | : 0,9C        |
| Rated output current           | : 500 mA      |
| Rated output power             | : 9-15 W      |
| Rated output voltage           | : 18-30 Vdc   |
| Uout                           | : 37 V        |
| Max. case temperature (tc)     | : 85 °C       |
| Classification of installation | : built-in    |

**Product data – type LSC15W700LRP UNI**

|                                |               |
|--------------------------------|---------------|
| Rated input voltage            | : 100-277 V   |
| Supply current                 | : 200 mA max. |
| Power factor                   | : 0,9C        |
| Rated output current           | : 700 mA      |
| Rated output power             | : 8,4-15,4 W  |
| Rated output voltage           | : 12-22 Vdc   |
| Uout                           | : 33 V        |
| Max. case temperature (tc)     | : 85 °C       |
| Classification of installation | : built-in    |

**Product data – type LSC20W250LRP UNI**

|                     |             |
|---------------------|-------------|
| Rated input voltage | : 100-277 V |
|---------------------|-------------|

|                                |               |
|--------------------------------|---------------|
| Supply current                 | : 200 mA max. |
| Power factor                   | : 0,85C       |
| Rated output current           | : 250 mA      |
| Rated output power             | : 8-13,7 W    |
| Rated output voltage           | : 32-55 Vdc   |
| Uout                           | : 65 V        |
| Max. case temperature (tc)     | : 80 °C       |
| Classification of installation | : built-in    |

**Product data – type LSC20W350LRP UNI**

|                                |               |
|--------------------------------|---------------|
| Rated input voltage            | : 100-277 V   |
| Supply current                 | : 260 mA max. |
| Power factor                   | : 0,9C        |
| Rated output current           | : 350 mA      |
| Rated output power             | : 11,2-19,2 W |
| Rated output voltage           | : 32-55 Vdc   |
| Uout                           | : 65 V        |
| Max. case temperature (tc)     | : 85 °C       |
| Classification of installation | : built-in    |

**Product data – type LSC20W500LRP UNI**

|                                |               |
|--------------------------------|---------------|
| Rated input voltage            | : 100-277 V   |
| Supply current                 | : 300 mA max. |
| Power factor                   | : 0,9C        |
| Rated output current           | : 500 mA      |
| Rated output power             | : 12-22,5 W   |
| Rated output voltage           | : 24-45 Vdc   |
| Uout                           | : 55 V        |
| Max. case temperature (tc)     | : 85 °C       |
| Classification of installation | : built-in    |

**Product data – type LSC20W700LRP UNI**

|                                |               |
|--------------------------------|---------------|
| Rated input voltage            | : 100-277 V   |
| Supply current                 | : 280 mA max. |
| Power factor                   | : 0,9C        |
| Rated output current           | : 700 mA      |
| Rated output power             | : 10,5-19,6 W |
| Rated output voltage           | : 15-28 Vdc   |
| Uout                           | : 40 V        |
| Max. case temperature (tc)     | : 85 °C       |
| Classification of installation | : built-in    |

**Product data – type LSC4W200LRP UNI**

|                                |               |
|--------------------------------|---------------|
| Rated input voltage            | : 100-240 V   |
| Supply current                 | : 85 mA max.  |
| Power factor                   | : 0,45C       |
| Rated output current           | : 200 mA      |
| Rated output power             | : 2,6-3,5 W   |
| Rated output voltage           | : 13-17,5 Vdc |
| Uout                           | : 28 V        |
| Max. case temperature (tc)     | : 75 °C       |
| Classification of installation | : built-in    |

**Product data – type LSC4W350LRP UNI**

|                                |               |
|--------------------------------|---------------|
| Rated input voltage            | : 100-240 V   |
| Supply current                 | : 85 mA max.  |
| Power factor                   | : 0,45C       |
| Rated output current           | : 350 mA      |
| Rated output power             | : 1-3,3 W     |
| Rated output voltage           | : 2,7-9,5 Vdc |
| Uout                           | : 18 V        |
| Max. case temperature (tc)     | : 80 °C       |
| Classification of installation | : built-in    |

**Product data – type LSC4W500LRP UNI**

|                                |               |
|--------------------------------|---------------|
| Rated input voltage            | : 100-240 V   |
| Supply current                 | : 85 mA max.  |
| Power factor                   | : 0,45C       |
| Rated output current           | : 500 mA      |
| Rated output power             | : 1,4-3,2 W   |
| Rated output voltage           | : 2,7-6,5 Vdc |
| Uout                           | : 15 V        |
| Max. case temperature (tc)     | : 80 °C       |
| Classification of installation | : built-in    |

**Product data – type LSC4W700LRP UNI**

|                                |               |
|--------------------------------|---------------|
| Rated input voltage            | : 100-240 V   |
| Supply current                 | : 85 mA max.  |
| Power factor                   | : 0,45C       |
| Rated output current           | : 700 mA      |
| Rated output power             | : 1,9-3,1 W   |
| Rated output voltage           | : 2,7-4,5 Vdc |
| Uout                           | : 15 V        |
| Max. case temperature (tc)     | : 90 °C       |
| Classification of installation | : built-in    |

**Product data – type LSC6W350LR UNI**

|                                |                 |
|--------------------------------|-----------------|
| Rated input voltage            | : 100-240 V     |
| Supply current                 | : 40 mA (@230V) |
| Power factor                   | : 0,9C          |
| Rated output current           | : 350 mA        |
| Rated output power             | : 3-6,3 W       |
| Rated output voltage           | : 8,6-18 Vdc    |
| Uout                           | : 25 V          |
| Max. case temperature (tc)     | : 80 °C         |
| Classification of installation | : built-in      |

**Product data – type LSC6W350LR-Z UNI**

|                                |                 |
|--------------------------------|-----------------|
| Rated input voltage            | : 100-240 V     |
| Supply current                 | : 40 mA (@230V) |
| Power factor                   | : 0,9C          |
| Rated output current           | : 350 mA        |
| Rated output power             | : 3-6,3 W       |
| Rated output voltage           | : 8,6-18 Vdc    |
| Uout                           | : 25 V          |
| Max. case temperature (tc)     | : 80 °C         |
| Classification of installation | : independent   |
| Type of protection             | : Class II      |

**Product data – type LSC6W500LR UNI**

|                                |                 |
|--------------------------------|-----------------|
| Rated input voltage            | : 100-240 V     |
| Supply current                 | : 38 mA (@230V) |
| Power factor                   | : 0,9C          |
| Rated output current           | : 500 mA        |
| Rated output power             | : 3-6 W         |
| Rated output voltage           | : 6-12 Vdc      |
| Uout                           | : 18 V          |
| Max. case temperature (tc)     | : 80 °C         |
| Classification of installation | : built-in      |

**Product data – type LSC6W500LR-Z UNI**

|                                |                 |
|--------------------------------|-----------------|
| Rated input voltage            | : 100-240 V     |
| Supply current                 | : 38 mA (@230V) |
| Power factor                   | : 0,9C          |
| Rated output current           | : 500 mA        |
| Rated output power             | : 3-6 W         |
| Rated output voltage           | : 6-12 Vdc      |
| Uout                           | : 18 V          |
| Max. case temperature (tc)     | : 80 °C         |
| Classification of installation | : built-in      |
| Type of protection             | : Class II      |

**Product data – type LSC6W700LR UNI**

|                                |                 |
|--------------------------------|-----------------|
| Rated input voltage            | : 100-240 V     |
| Supply current                 | : 40 mA (@230V) |
| Power factor                   | : 0,9C          |
| Rated output current           | : 700 mA        |
| Rated output power             | : 3-6,3 W       |
| Rated output voltage           | : 4,3-9 Vdc     |
| Uout                           | : 16 V          |
| Max. case temperature (tc)     | : 80 °C         |
| Classification of installation | : built-in      |

**Product data – type LSC6W700LR-Z UNI**

|                                |                 |
|--------------------------------|-----------------|
| Rated input voltage            | : 100-240 V     |
| Supply current                 | : 40 mA (@230V) |
| Power factor                   | : 0,9C          |
| Rated output current           | : 700 mA        |
| Rated output power             | : 3-6,3 W       |
| Rated output voltage           | : 4,3-9 Vdc     |
| Uout                           | : 16 V          |
| Max. case temperature (tc)     | : 80 °C         |
| Classification of installation | : independent   |
| Type of protection             | : Class II      |

**Product data – type LSC9W300LRP UNI**

|                      |               |
|----------------------|---------------|
| Rated input voltage  | : 100-277 V   |
| Supply current       | : 120 mA max. |
| Power factor         | : 0,9C        |
| Rated output current | : 300 mA      |
| Rated output power   | : 4,2-8,2 W   |
| Rated output voltage | : 14-27,5 Vdc |

Uout : 40 V  
Max. case temperature (tc) : 80 °C  
Classification of installation : built-in

**Product data – type LSC9W350LRP UNI**

Rated input voltage : 100-277 V  
Supply current : 120 mA max.  
Power factor : 0,9C  
Rated output current : 350 mA  
Rated output power : 3,9-8,4 W  
Rated output voltage : 11-24 Vdc  
Uout : 35 V  
Max. case temperature (tc) : 80 °C  
Classification of installation : built-in

**Product data – type LSC9W480LRP UNI**

Rated input voltage : 100-277 V  
Supply current : 140 mA max.  
Power factor : 0,9C  
Rated output current : 480 mA  
Rated output power : 3,9-10 W  
Rated output voltage : 8-21 Vdc  
Uout : 28 V  
Max. case temperature (tc) : 85 °C  
Classification of installation : built-in

**Product data – type LSC9W500LRP UNI**

Rated input voltage : 100-277 V  
Supply current : 140 mA max.  
Power factor : 0,9C  
Rated output current : 500 mA  
Rated output power : 5-10 W  
Rated output voltage : 10-20 Vdc  
Uout : 28 V  
Max. case temperature (tc) : 85 °C  
Classification of installation : built-in

**Product data – type LSC9W700LRP UNI**

Rated input voltage : 100-277 V  
Supply current : 130 mA max.  
Power factor : 0,9C  
Rated output current : 700 mA  
Rated output power : 4,2-9,1 W  
Rated output voltage : 6-13 Vdc  
Uout : 18 V  
Max. case temperature (tc) : 85 °C  
Classification of installation : built-in

**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 342129300.

**Additional information**

The LED controlgear are independent Class II or built-in electronic controlgear with double or reinforced insulation. The drivers are for LEDs with constant current. The insulation between primary and secondary is SELV and between primary and housing is considered as double or reinforced insulation. The controlgears have LSC6W... have screw terminals, all others have free lead wires. The max. enclosure temperature under abnormal or fault conditions is 110°C.

The list of components is laid down in test report 3421293.50.

**Conclusion**

The examination proved that all requirements were met.

**Factory locations**

HEP GmbH  
Ramsloh 10  
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Weisen Electronic Co. Ltd.  
Sanzao Ind. Park of Zhuhai Zhuhai City  
511450 Guangdong Province, China