

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 : 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(s) EN 61347-1:2015, EN 61347-1:2015/A1:2021, EN 61347-2-13:2014, EN 61347-2-13:2014/A1:2017 and EN IEC 62384:2020
- an inspection of the factory location according to CENELEC Operational Document CIG 021
- a DEKRA certification agreement with the number 2013493

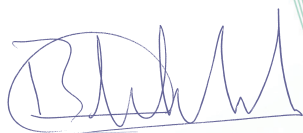
DEKRA hereby grants the right to use the ENEC certification mark.

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 24 August 2022 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 88-125013

DEKRA Certification B.V.



B.T.M. Holtus
Managing Director



R Zhou
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, 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
Rated supply voltage	: 100-240 / 100-277 Vac
Supply frequency	: 50-60 Hz
Ambient temperature (ta)	: -20...+50°C

Product data – type LSC15W350LRP UNI

Rated input voltage	: 100-277 V
Rated supply current	: 190 mA max.
Power factor range	: 0,82C–0,99
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
Degree of protection	: IP20

Product data – type LSC15W500LRP UNI

Rated input voltage	: 100-277 V
Rated supply current	: 190 mA max.
Power factor range	: 0,85C–0,99
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
Degree of protection	: IP20

Product data – type LSC15W700LRP UNI

Rated input voltage	: 100-277 V
Rated supply current	: 200 mA max.
Power factor range	: 0,85C–0,99
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
Degree of protection	: IP20

Product data – type LSC20W250LRP UNI

Rated input voltage	: 100-277 V
Rated supply current	: 200 mA max.
Power factor range	: 0,75C–0,99
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
Degree of protection	: IP20

Product data – type LSC20W350LRP UNI

Rated input voltage	: 100-277 V
Rated supply current	: 260 mA max.
Power factor range	: 0,79C–0,99
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
Degree of protection	: IP20

Product data – type LSC20W500LRP UNI

Rated input voltage	: 100-277 V
Rated supply current	: 300 mA max.
Power factor range	: 0,73C–0,99
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
Degree of protection	: IP20

Product data – type LSC20W700LRP UNI

Rated input voltage	: 100-277 V
Rated supply current	: 280 mA max.
Power factor range	: 0,74C–0,99
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
Degree of protection	: IP20

Product data – type LSC4W200LRP UNI

Rated input voltage	: 100-240 V
Rated supply current	: 85 mA max.
Power factor range	: 0,45-0,64C
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
Degree of protection	: IP20

Product data – type LSC4W350LRP UNI

Rated input voltage	: 100-240 V
Rated supply current	: 85 mA max.
Power factor range	: 0,37–0,65C
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
Degree of protection	: IP20

Product data – type LSC4W500LRP UNI

Rated input voltage	: 100-240 V
Rated supply current	: 85 mA max.
Power factor range	: 0,4–0,61C
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
Degree of protection	: IP20

Product data – type LSC4W700LRP UNI

Rated input voltage	: 100-240 V
Supply current	: 85 mA max.
Power factor range	: 0,45–0,65C
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
Degree of protection	: IP20

Product data – type LSC6W350LR UNI

Rated input voltage	: 100-240 V
Rated supply current	: 85 mA max.
Power factor range	: 0,83C–0,99
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
Degree of protection	: IP20

Product data – type LSC6W350LR-Z UNI

Rated input voltage	: 100-240 V
Rated supply current	: 85 mA max.
Power factor	: 0,83C–0,99
Rated output current	: 350 mA
Rated output power	: 3-6,3 W
Rated output voltage	: 8,6-18 Vdc
U _{out}	: 25 V
Max. case temperature (tc)	: 80 °C
Classification of installation	: independent
Type of protection	: Class II
Degree of protection	: IP20

Product data – type LSC6W500LR UNI

Rated input voltage	: 100-240 V
Rated supply current	: 82 mA max.
Power factor range	: 0,86C–0,99
Rated output current	: 500 mA
Rated output power	: 3-6 W
Rated output voltage	: 6-12 Vdc
U _{out}	: 18 V
Max. case temperature (tc)	: 80 °C
Classification of installation	: built-in
Degree of protection	: IP20

Product data – type LSC6W500LR-Z UNI

Rated input voltage	: 100-240 V
Rated supply current	: 82 mA max.
Power factor range	: 0,86C–0,99
Rated output current	: 500 mA
Rated output power	: 3-6 W
Rated output voltage	: 6-12 Vdc
U _{out}	: 18 V
Max. case temperature (tc)	: 80 °C
Classification of installation	: Independent
Type of protection	: Class II
Degree of protection	: IP20

Product data – type LSC6W700LR UNI

Rated input voltage	: 100-240 V
Rated supply current	: 90 mA max.
Power factor range	: 0,83C–0,99
Rated output current	: 700 mA
Rated output power	: 3-6,3 W
Rated output voltage	: 4,3-9 Vdc
U _{out}	: 16 V
Max. case temperature (tc)	: 80 °C
Classification of installation	: built-in
Degree of protection	: IP20

Product data – type LSC6W700LR-Z UNI

Rated input voltage	: 100-240 V
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Rated supply current	: 90 mA max.
Power factor range	: 0,83C–0,99
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
Degree of protection	: IP20

Product data – type LSC9W300LRP UNI

Rated input voltage	: 100-277 V
Rated supply current	: 120 mA max.
Power factor range	: 0,75C–0,99
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
Degree of protection	: IP20

Product data – type LSC9W350LRP UNI

Rated input voltage	: 100-277 V
Rated supply current	: 120 mA max.
Power factor range	: 0,7C–0,99
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
Degree of protection	: IP20

Product data – type LSC9W480LRP UNI

Rated input voltage	: 100-277 V
Rated supply current	: 140 mA max.
Power factor range	: 0,71C–0,99
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
Degree of protection	: IP20

Product data – type LSC9W500LRP UNI

Rated input voltage	: 100-277 V
Rated supply current	: 140 mA max.
Power factor range	: 0,76C–0,99
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
Degree of protection	: IP20

Product data – type LSC9W700LRP UNI

Rated input voltage	: 100-277 V
Rated supply current	: 130 mA max.
Power factor range	: 0,7C–0,99
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
Degree of protection	: IP20

TESTS**Test requirements**

EN 61347-1:2015
EN 61347-1:2015/A1:2021
EN 61347-2-13:2014
EN 61347-2-13:2014/A1:2017
EN IEC 62384:2020

Test result

The test results are laid down in DEKRA test file 342723200.

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 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 3427232.50.

Conclusion

The examination proved that all requirements were met.

Factory locations

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