

# 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 LED Driver  
Trade name(s) : HEP GROUP®  
Type(s)/model(s) : LNCyWxxxLR, LNTCyWxxxLR, LNCyWxxxLRP, LNTCyWxxxLRP

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 61347-1:2015/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

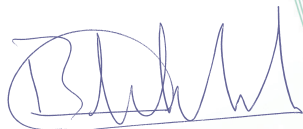
DEKRA hereby grants the right to use the ENEC certification mark.

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 22 December 2023 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 88-133183

DEKRA Certification B.V.



B.T.M. Holtus  
Managing Director



Miranda Zhou  
Certification Manager

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COUNCIL





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

Product	: Current controlled LED Driver
Trade name(s)	: HEP GROUP®
Type(s)/model(s)	: LNC10W200LR, LNC10W300LR, LNC10W350LR, LNC10W400LR, LNC10W450LR, LNC10W500LR, LNC10W550LR, LNC10W600LR, LNC10W700LR, LNC15W180LR, LNC15W200LR, LNC15W250LR, LNC15W300LR, LNC15W350LR, LNC20W250LRP, LNC20W300LRP, LNC20W350LRP, LNC20W400LRP, LNC20W450LRP, LNC20W500LRP, LNC20W550LRP, LNC20W600LRP, LNC20W700LRP, LNC30W1000LRP, LNC30W400LRP, LNC30W450LRP, LNC30W500LRP, LNC30W550LRP, LNC30W600LRP, LNC30W700LRP, LNC30W800LRP, LNC30W900LRP, LNC40W1000LRP, LNC40W1050LRP, LNC40W500LRP, LNC40W600LRP, LNC40W700LRP, LNC40W800LRP, LNC40W850LRP, LNC40W900LRP, LNC40W950LRP, LNC6W120LR, LNC6W150LR, LNC6W200LR, LNC6W250LR, LNC6W300LR, LNC6W350LR, LNC6W400LR, LNC6W450LR, LNC6W500LR, LNC6W700LR, LNTC10W200LR, LNTC10W300LR, LNTC10W350LR, LNTC10W400LR, LNTC10W450LR, LNTC10W500LR, LNTC10W550LR, LNTC10W600LR, LNTC10W700LR, LNTC15W180LR, LNTC15W200LR, LNTC15W250LR, LNTC15W300LR, LNTC15W350LR, LNTC20W250LRP, LNTC20W300LRP, LNTC20W350LRP, LNTC20W400LRP, LNTC20W450LRP, LNTC20W500LRP, LNTC20W550LRP, LNTC20W600LRP, LNTC20W700LRP, LNTC30W1000LRP, LNTC30W400LRP, LNTC30W450LRP, LNTC30W500LRP, LNTC30W550LRP, LNTC30W600LRP, LNTC30W700LRP, LNTC30W800LRP, LNTC30W900LRP, LNTC40W1000LRP, LNTC40W1050LRP, LNTC40W500LRP, LNTC40W600LRP, LNTC40W700LRP, LNTC40W800LRP, LNTC40W850LRP, LNTC40W900LRP, LNTC40W950LRP, LNTC6W120LR, LNTC6W150LR, LNTC6W200LR, LNTC6W250LR, LNTC6W300LR, LNTC6W350LR, LNTC6W400LR, LNTC6W450LR, LNTC6W500LR and LNTC6W700LR
Rated supply voltage	: 220-240 Vac
Supply frequency	: 50-60 Hz
Ambient temperature range (ta)	: -20...+50 °C
Classification of installation	: built-in
Degree of protection	: IP20

**Product data – type LNTC30W900LLRP**

Power factor	: 0,94C–0,97
Rated output current	: 900 mA
Rated output power	: 12,1–28,8 W
Output voltage range	: 13,5–32 Vdc
Uout	: 38 V
Max. case temperature (tc)	: 80°C

**Product data – type LNC10W200LR and LNTC10W200LR**

Power factor	: 0,93C–0,97
Rated output current	: 200 mA

Rated output power : 3,2–5,8 W  
Output voltage range : 16–29 Vdc  
Uout : 35 V  
Max. case temperature (tc) : 65°C

**Product data – type LNC10W300LR and LNTC10W300LR**

Power factor : 0,93C–0,97  
Rated output current : 300 mA  
Rated output power : 4,8–8,7 W  
Output voltage range : 16–29 Vdc  
Uout : 35 V  
Max. case temperature (tc) : 65°C

**Product data – type LNC10W350LR and LNTC10W350LR**

Power factor : 0,93C–0,97  
Rated output current : 350 mA  
Rated output power : 5,6–10,1 W  
Output voltage range : 16–29 Vdc  
Uout : 35 V  
Max. case temperature (tc) : 65°C

**Product data – type LNC10W400LR and LNTC10W400LR**

Power factor : 0,93C–0,97  
Rated output current : 400 mA  
Rated output power : 4,4–8 W  
Output voltage range : 11–20 Vdc  
Uout : 26 V  
Max. case temperature (tc) : 70°C

**Product data – type LNC10W450LR and LNTC10W450LR**

Power factor : 0,93C–0,97  
Rated output current : 450 mA  
Rated output power : 5–9 W  
Output voltage range : 11–20 Vdc  
Uout : 26 V  
Max. case temperature (tc) : 70°C

**Product data – type LNC10W500LR and LNTC10W500LR**

Power factor : 0,93C–0,97  
Rated output current : 500 mA  
Rated output power : 5,5–10 W  
Output voltage range : 11–20 Vdc  
Uout : 26 V  
Max. case temperature (tc) : 70°C

**Product data – type LNC10W550LR and LNTC10W550LR**

Power factor : 0,93C–0,97  
Rated output current : 550 mA  
Rated output power : 4,4–7,7 W  
Output voltage range : 8–14 Vdc  
Uout : 20 V  
Max. case temperature (tc) : 65°C

**Product data – type LNC10W600LR and LNTC10W600LR**

Power factor	: 0,93C–0,97
Rated output current	: 600 mA
Rated output power	: 4,8–8,4 W
Output voltage range	: 8–14 Vdc
Uout	: 20 V
Max. case temperature (tc)	: 65°C

**Product data – type LNC10W700LR and LNTC10W700LR**

Power factor	: 0,93C–0,97
Rated output current	: 700 mA
Rated output power	: 5,6–9,8 W
Output voltage range	: 8–14 Vdc
Uout	: 20 V
Max. case temperature (tc)	: 65°C

**Product data – type LNC15W180LR and LNTC15W180LR**

Power factor	: 0,8–0,9C
Rated output current	: 180 mA
Rated output power	: 5,4–7,2 W
Output voltage range	: 30–40 Vdc
Uout	: 50 V
Max. case temperature (tc)	: 65°C

**Product data – type LNC15W200LR and LNTC15W200LR**

Power factor	: 0,86C–0,95
Rated output current	: 200 mA
Rated output power	: 6–8 W
Output voltage range	: 30–40 Vdc
Uout	: 50 V
Max. case temperature (tc)	: 65°C

**Product data – type LNC15W250LR and LNTC15W250LR**

Power factor	: 0,86C–0,95
Rated output current	: 250 mA
Rated output power	: 7,5–10 W
Output voltage range	: 30–40 Vdc
Uout	: 50 V
Max. case temperature (tc)	: 65°C

**Product data – type LNC15W300LR and LNTC15W300LR**

Power factor	: 0,9C–0,95
Rated output current	: 300 mA
Rated output power	: 9–12 W
Output voltage range	: 30–40 Vdc
Uout	: 50 V
Max. case temperature (tc)	: 65°C

**Product data – type LNC15W350LR and LNTC15W350LR**

Power factor	: 0,9C–0,95
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Rated output current	: 350 mA
Rated output power	: 10,5–14 W
Output voltage range	: 30–40 Vdc
U <sub>out</sub>	: 50 V
Max. case temperature (tc)	: 65°C

**Product data – type LNC20W250LRP and LNTC20W250LRP**

Power factor	: 0,9C–0,97
Rated output current	: 250 mA
Rated output power	: 8,5–14,2 W
Output voltage range	: 34–57 Vdc
U <sub>out</sub>	: 65 V
Max. case temperature (tc)	: 75°C

**Product data – type LNC20W300LRP and LNTC20W300LRP**

Power factor	: 0,9C–0,97
Rated output current	: 300 mA
Rated output power	: 10,2–17,1 W
Output voltage range	: 34–57 Vdc
U <sub>out</sub>	: 65 V
Max. case temperature (tc)	: 75°C

**Product data – type LNC20W350LRP and LNTC20W350LRP**

Power factor	: 0,9C–0,97
Rated output current	: 350 mA
Rated output power	: 11,9–19,9 W
Output voltage range	: 34–57 Vdc
U <sub>out</sub>	: 65 V
Max. case temperature (tc)	: 75°C

**Product data – type LNC20W400LRP and LNTC20W400LRP**

Power factor	: 0,9C–0,97
Rated output current	: 400 mA
Rated output power	: 8,8–16,4 W
Output voltage range	: 22–41 Vdc
U <sub>out</sub>	: 52 V
Max. case temperature (tc)	: 75°C

**Product data – type LNC20W450LRP and LNTC20W450LRP**

Power factor	: 0,9C–0,97
Rated output current	: 450 mA
Rated output power	: 9,9–18,4 W
Output voltage range	: 22–41 Vdc
U <sub>out</sub>	: 52 V
Max. case temperature (tc)	: 75°C

**Product data – type LNC20W500LRP and LNTC20W500LRP**

Power factor	: 0,9C–0,97
Rated output current	: 500 mA
Rated output power	: 11–20,5 W
Output voltage range	: 22–41 Vdc
U <sub>out</sub>	: 52 V

Max. case temperature (tc) : 75°C

**Product data – type LNC20W550LRP and LNTC20W550LRP**

Power factor : 0,9C–0,97  
Rated output current : 550 mA  
Rated output power : 9,4–15,9 W  
Output voltage range : 17–29 Vdc  
Uout : 37 V  
Max. case temperature (tc) : 80°C

**Product data – type LNC20W600LRP and LNTC20W600LRP**

Power factor : 0,9C–0,97  
Rated output current : 600 mA  
Rated output power : 10,2–17,4 W  
Output voltage range : 17–29 Vdc  
Uout : 37 V  
Max. case temperature (tc) : 80°C

**Product data – type LNC20W700LRP and LNTC20W700LRP**

Power factor : 0,9C–0,97  
Rated output current : 700 mA  
Rated output power : 11,9–20,3 W  
Output voltage range : 17–29 Vdc  
Uout : 37 V  
Max. case temperature (tc) : 80°C

**Product data – type LNC30W1000LRP and LNTC30W1000LRP**

Power factor : 0,94C–0,97  
Rated output current : 1000 mA  
Rated output power : 18–30 W  
Output voltage range : 18–30 Vdc  
Uout : 38 V  
Max. case temperature (tc) : 80°C

**Product data – type LNC30W400LRP and LNTC30W400LRP**

Power factor : 0,94C–0,97  
Rated output current : 400 mA  
Rated output power : 14,4–24 W  
Output voltage range : 36–60 Vdc  
Uout : 70 V  
Max. case temperature (tc) : 80°C

**Product data – type LNC30W450LRP and LNTC30W450LRP**

Power factor : 0,94C–0,97  
Rated output current : 450 mA  
Rated output power : 16,2–27 W  
Output voltage range : 36–60 Vdc  
Uout : 70 V  
Max. case temperature (tc) : 80°C

**Product data – type LNC30W500LRP and LNTC30W500LRP**

Power factor	: 0,94C–0,97
Rated output current	: 500 mA
Rated output power	: 18–30 W
Output voltage range	: 36–60 Vdc
Uout	: 70 V
Max. case temperature (tc)	: 80°C

**Product data – type LNC30W550LRP and LNTC30W550LRP**

Power factor	: 0,94C–0,97
Rated output current	: 550 mA
Rated output power	: 13,8–23,1 W
Output voltage range	: 25–42 Vdc
Uout	: 50 V
Max. case temperature (tc)	: 80°C

**Product data – type LNC30W600LRP and LNTC30W600LRP**

Power factor	: 0,94C–0,97
Rated output current	: 600 mA
Rated output power	: 15–25,2 W
Output voltage range	: 25–42 Vdc
Uout	: 50 V
Max. case temperature (tc)	: 80°C

**Product data – type LNC30W700LRP and LNTC30W700LRP**

Power factor	: 0,94C–0,97
Rated output current	: 700 mA
Rated output power	: 17,5–29,4 W
Output voltage range	: 25–42 Vdc
Uout	: 50 V
Max. case temperature (tc)	: 80°C

**Product data – type LNC30W800LRP and LNTC30W800LRP**

Power factor	: 0,94C–0,97
Rated output current	: 800 mA
Rated output power	: 14,4–24 W
Output voltage range	: 18–30 Vdc
Uout	: 38 V
Max. case temperature (tc)	: 80°C

**Product data – type LNC30W900LRP and LNTC30W900LRP**

Power factor	: 0,94C–0,97
Rated output current	: 900 mA
Rated output power	: 16,2–27 W
Output voltage range	: 18–30 Vdc
Uout	: 38 V
Max. case temperature (tc)	: 80°C

**Product data – type LNC40W1000LRP and LNTC40W1000LRP**

Power factor	: 0,93C–0,97
Rated output current	: 1000 mA
Rated output power	: 22–38 W

Output voltage range : 22–38 Vdc  
U<sub>out</sub> : 45 V  
Max. case temperature (tc) : 85°C

**Product data – type LNC40W1050LRP and LNTC40W1050LRP**

Power factor : 0,93C–0,97  
Rated output current : 1050 mA  
Rated output power : 23,1–39,9 W  
Output voltage range : 22–38 Vdc  
U<sub>out</sub> : 45 V  
Max. case temperature (tc) : 85°C

**Product data – type LNC40W500LRP and LNTC40W500LRP**

Power factor : 0,93C–0,97  
Rated output current : 500 mA  
Rated output power : 17,5–28,5 W  
Output voltage range : 35–57 Vdc  
U<sub>out</sub> : 63 V  
Max. case temperature (tc) : 80°C

**Product data – type LNC40W600LRP and LNTC40W600LRP**

Power factor : 0,93C–0,97  
Rated output current : 600 mA  
Rated output power : 21–34,2 W  
Output voltage range : 35–57 Vdc  
U<sub>out</sub> : 63 V  
Max. case temperature (tc) : 80°C

**Product data – type LNC40W700LRP and LNTC40W700LRP**

Power factor : 0,93C–0,97  
Rated output current : 700 mA  
Rated output power : 24,5–39,9 W  
Output voltage range : 35–57 Vdc  
U<sub>out</sub> : 63 V  
Max. case temperature (tc) : 80°C

**Product data – type LNC40W800LRP and LNTC40W800LRP**

Power factor : 0,93C–0,97  
Rated output current : 800 mA  
Rated output power : 20,8–35,2 W  
Output voltage range : 26–44 Vdc  
U<sub>out</sub> : 50 V  
Max. case temperature (tc) : 85°C

**Product data – type LNC40W850LRP and LNTC40W850LRP**

Power factor : 0,93C–0,97  
Rated output current : 850 mA  
Rated output power : 22,1–37,4 W  
Output voltage range : 26–44 Vdc  
U<sub>out</sub> : 50 V  
Max. case temperature (tc) : 85°C



**Product data – type LNC40W900LRP and LNTC40W900LRP**

Power factor	: 0,93C–0,97
Rated output current	: 900 mA
Rated output power	: 23,4–39,6 W
Output voltage range	: 26–44 Vdc
Uout	: 50 V
Max. case temperature (tc)	: 85°C

**Product data – type LNC40W950LRP and LNTC40W950LRP**

Power factor	: 0,93C–0,97
Rated output current	: 950 mA
Rated output power	: 20,9–36,1 W
Output voltage range	: 22–38 Vdc
Uout	: 45 V
Max. case temperature (tc)	: 85°C

**Product data – type LNC6W120LR and LNTC6W120LR**

Power factor	: 0,9C–0,97
Rated output current	: 120 mA
Rated output power	: 2,2–3,6 W
Output voltage range	: 18–30 Vdc
Uout	: 35 V
Max. case temperature (tc)	: 70 °C

**Product data – type LNC6W150LR and LNTC6W150LR**

Power factor	: 0,91C–0,97
Rated output current	: 150 mA
Rated output power	: 2,5–4,5 W
Output voltage range	: 16,5–30 Vdc
Uout	: 35 V
Max. case temperature (tc)	: 70 °C

**Product data – type LNC6W200LR and LNTC6W200LR**

Power factor	: 0,93C–0,97
Rated output current	: 200 mA
Rated output power	: 3,3–6 W
Output voltage range	: 16,5–30 Vdc
Uout	: 35 V
Max. case temperature (tc)	: 70 °C

**Product data – type LNC6W250LR and LNTC6W250LR**

Power factor	: 0,93C–0,97
Rated output current	: 250 mA
Rated output power	: 2,5–4,2 W
Output voltage range	: 10–17 Vdc
Uout	: 24 V
Max. case temperature (tc)	: 65 °C

**Product data – type LNC6W300LR and LNTC6W300LR**

Power factor	: 0,93C–0,97
Rated output current	: 300 mA

Rated output power : 3–5,1 W  
Output voltage range : 10–17 Vdc  
Uout : 24 V  
Max. case temperature (tc) : 65 °C

**Product data – type LNC6W350LR and LNTC6W350LR**

Power factor : 0,93C–0,97  
Rated output current : 350 mA  
Rated output power : 3,5–5,9 W  
Output voltage range : 10–17 Vdc  
Uout : 24 V  
Max. case temperature (tc) : 65 °C

**Product data – type LNC6W400LR and LNTC6W400LR**

Power factor : 0,93C–0,97  
Rated output current : 400 mA  
Rated output power : 2,8–5,2 W  
Output voltage range : 7–13 Vdc  
Uout : 17 V  
Max. case temperature (tc) : 65 °C

**Product data – type LNC6W450LR and LNTC6W450LR**

Power factor : 0,93C–0,97  
Rated output current : 450 mA  
Rated output power : 3,2–5,8 W  
Output voltage range : 7–13 Vdc  
Uout : 17 V  
Max. case temperature (tc) : 65 °C

**Product data – type LNC6W500LR and LNTC6W500LR**

Power factor : 0,93C–0,97  
Rated output current : 500 mA  
Rated output power : 3,5–6,5 W  
Output voltage range : 7–13 Vdc  
Uout : 17 V  
Max. case temperature (tc) : 65 °C

**Product data – type LNC6W700LR and LNTC6W700LR**

Power factor : 0,93C–0,95  
Rated output current : 700 mA  
Rated output power : 3,4–6 W  
Output voltage range : 4,8–8,6 Vdc  
Uout : 13 V  
Max. case temperature (tc) : 75 °C

**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 343159300.

**Additional information**

The LED controlgear is a built-in SELV controlgear with double or reinforced insulation for LEDs with constant current. The LED controlgear can be used inside of luminaires. The types with "P" in the type designation are potted. The LED controlgear with "T" in the type designation is dimmable with a trailing edge dimmer. The insulation between primary and secondary is SELV and between primary and housing is considered as double or reinforced insulation. The controlgear has 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 3431593.50.

**Conclusion**

The examination proved that all requirements were met.

**Factory locations**

HEP GmbH  
Ramsloh 10  
58579 Schalksmühle, Germany

Weisen Electronic Co. Ltd.  
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