

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) : LNDC10W200LRP, LNDC10W300LRP, LNDC10W350LRP,
LNDC10W400LRP, LNDC10W450LRP, LNDC10W500LRP,
LNDC15W180LRP, LNDC15W200LRP, LNDC15W250LRP,
LNDC15W300LRP, LNDC15W350LRP, LNDC20W300LRP,
LNDC20W350LRP, LNDC20W400LRP, LNDC20W450LRP,
LNDC20W500LRP, LNDC20W550LRP, LNDC20W600LRP,
LNDC20W700LRP, LNDC30W1000LRP, LNDC30W400LRP,
LNDC30W450LRP, LNDC30W500LRP, LNDC30W550LRP,
LNDC30W600LRP, LNDC30W700LRP, LNDC30W800LRP,
LNDC30W900LRP, LNDC40W1000LRP, LNDC40W1050LRP,
LNDC40W500LRP, LNDC40W600LRP, LNDC40W700LRP,
LNDC40W800LRP, LNDC40W850LRP, LNDC40W900LRP,
LNDC40W950LRP, LNDC6W120LRP, LNDC6W150LRP, LNDC6W200LRP,
LNDC6W250LRP and LNDC6W350LRP

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

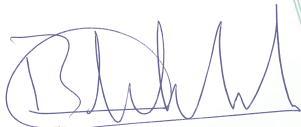
DEKRA hereby grants the right to use the ENEC certification mark.

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: 88-133238

DEKRA Certification B.V.



B.T.M. Holtus
Managing Director



Miranda Zhou
Certification Manager

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SPECIFICATION OF THE CERTIFIED PRODUCT**Product data**

Product	: Current controlled LED Driver
Trade name(s)	: HEP GROUP®
Type(s)/model(s)	: LNDC10W200LRP, LNDC10W300LRP, LNDC10W350LRP, LNDC10W400LRP, LNDC10W450LRP, LNDC10W500LRP, LNDC15W180LRP, LNDC15W200LRP, LNDC15W250LRP, LNDC15W300LRP, LNDC15W350LRP, LNDC20W300LRP, LNDC20W350LRP, LNDC20W400LRP, LNDC20W450LRP, LNDC20W500LRP, LNDC20W550LRP, LNDC20W600LRP, LNDC20W700LRP, LNDC30W1000LRP, LNDC30W400LRP, LNDC30W450LRP, LNDC30W500LRP, LNDC30W550LRP, LNDC30W600LRP, LNDC30W700LRP, LNDC30W800LRP, LNDC30W900LRP, LNDC40W1000LRP, LNDC40W1050LRP, LNDC40W500LRP, LNDC40W600LRP, LNDC40W700LRP, LNDC40W800LRP, LNDC40W850LRP, LNDC40W900LRP, LNDC40W950LRP, LNDC6W120LRP, LNDC6W150LRP, LNDC6W200LRP, LNDC6W250LRP and LNDC6W350LRP
Rated voltage	: 220-240 Vac
Rated frequency	: 50-60 Hz
Ambient temperature range (ta)	: -20...+50 °C
Classification of installation	: built-in
Degree of protection	: IP20

Product data – type LNDC10W200LRP

Power factor	: 0,81–0,87C
Rated output current	: 200 mA
Rated output power	: 4–5,8 W
Output voltage range	: 20–29 Vdc
Uout	: 40 V
Max. case temperature (tc)	: 75 °C

Product data – type LNDC10W300LRP

Power factor	: 0,85–0,9C
Rated output current	: 300 mA
Rated output power	: 6–8,7 W
Output voltage range	: 20–29 Vdc
Uout	: 40 V
Max. case temperature (tc)	: 75 °C

Product data – type LNDC10W350LRP

Power factor	: 0,86–0,91C
Rated output current	: 350 mA
Rated output power	: 7–10,1 W
Output voltage range	: 20–29 Vdc
Uout	: 40 V
Max. case temperature (tc)	: 75 °C

Product data – type LNDC10W400LRP

Power factor	: 0,84–0,9C
Rated output current	: 400 mA
Rated output power	: 5,6–8 W
Output voltage range	: 14–20 Vdc

U_{out} : 30 V
Max. case temperature (t_c) : 75 °C

Product data – type LNDC10W450LRP

Power factor : 0,81–0,93C
Rated output current : 450 mA
Rated output power : 6,3–9 W
Output voltage range : 14–20 Vdc
U_{out} : 30 V
Max. case temperature (t_c) : 75 °C

Product data – type LNDC10W500LRP

Power factor : 0,84–0,94C
Rated output current : 500 mA
Rated output power : 7–10 W
Output voltage range : 14–20 Vdc
U_{out} : 30 V
Max. case temperature (t_c) : 75 °C

Product data – type LNDC15W180LRP

Power factor : 0,88–0,9C
Rated output current : 180 mA
Rated output power : 5,4–7,7 W
Output voltage range : 30–43 Vdc
U_{out} : 50 V
Max. case temperature (t_c) : 80 °C

Product data – type LNDC15W200LRP

Power factor : 0,88–0,92C
Rated output current : 200 mA
Rated output power : 6–8,6 W
Output voltage range : 30–43 Vdc
U_{out} : 50 V
Max. case temperature (t_c) : 80 °C

Product data – type LNDC15W250LRP

Power factor : 0,87–0,92C
Rated output current : 250 mA
Rated output power : 7,5–10,7 W
Output voltage range : 30–43 Vdc
U_{out} : 50 V
Max. case temperature (t_c) : 80 °C

Product data – type LNDC15W300LRP

Power factor : 0,84–0,93C
Rated output current : 300 mA
Rated output power : 9–12,9 W
Output voltage range : 30–43 Vdc
U_{out} : 50 V
Max. case temperature (t_c) : 80 °C

Product data – type LNDC15W350LRP

Power factor	: 0,9–0,94C
Rated output current	: 350 mA
Rated output power	: 10,5–15 W
Output voltage range	: 30–43 Vdc
Uout	: 50 V
Max. case temperature (tc)	: 80 °C

Product data – type LNDC20W300LRP

Power factor	: 0,87–0,94C
Rated output current	: 300 mA
Rated output power	: 12–17,4 W
Output voltage range	: 40–58 Vdc
Uout	: 65 V
Max. case temperature (tc)	: 75 °C

Product data – type LNDC20W350LRP

Power factor	: 0,87–0,94C
Rated output current	: 350 mA
Rated output power	: 14–20,3 W
Output voltage range	: 40–58 Vdc
Uout	: 65 V
Max. case temperature (tc)	: 75 °C

Product data – type LNDC20W400LRP

Power factor	: 0,85–0,92C
Rated output current	: 400 mA
Rated output power	: 11,2–16 W
Output voltage range	: 28–40 Vdc
Uout	: 52 V
Max. case temperature (tc)	: 70 °C

Product data – type LNDC20W450LRP

Power factor	: 0,88–0,94C
Rated output current	: 450 mA
Rated output power	: 12,6–18 W
Output voltage range	: 28–40 Vdc
Uout	: 52 V
Max. case temperature (tc)	: 70 °C

Product data – type LNDC20W500LRP

Power factor	: 0,9C–0,96
Rated output current	: 500 mA
Rated output power	: 14–20 W
Output voltage range	: 28–40 Vdc
Uout	: 52 V
Max. case temperature (tc)	: 70 °C

Product data – type LNDC20W550LRP

Power factor	: 0,87–0,94C
Rated output current	: 550 mA
Rated output power	: 11–15,9 W

Output voltage range : 20–29 Vdc
U_{out} : 37 V
Max. case temperature (tc) : 75 °C

Product data – type LNDC20W600LRP

Power factor : 0,87–0,94C
Rated output current : 600 mA
Rated output power : 12–17,4 W
Output voltage range : 20–29 Vdc
U_{out} : 37 V
Max. case temperature (tc) : 75 °C

Product data – type LNDC20W700LRP

Power factor : 0,86–0,94C
Rated output current : 700 mA
Rated output power : 14–20,3 W
Output voltage range : 20–29 Vdc
U_{out} : 37 V
Max. case temperature (tc) : 75 °C

Product data – type LNDC30W1000LRP

Power factor : 0,86–0,94C
Rated output current : 1000 mA
Rated output power : 21–30 W
Output voltage range : 21–30 Vdc
U_{out} : 38 V
Max. case temperature (tc) : 80 °C

Product data – type LNDC30W400LRP

Power factor : 0,85–0,92C
Rated output current : 400 mA
Rated output power : 14,4–21,6 W
Output voltage range : 36–54 Vdc
U_{out} : 63 V
Max. case temperature (tc) : 75 °C

Product data – type LNDC30W450LRP

Power factor : 0,86–0,93C
Rated output current : 450 mA
Rated output power : 16,2–24,3 W
Output voltage range : 36–54 Vdc
U_{out} : 63 V
Max. case temperature (tc) : 75 °C

Product data – type LNDC30W500LRP

Power factor : 0,87–0,94C
Rated output current : 500 mA
Rated output power : 18–27 W
Output voltage range : 36–54 Vdc
U_{out} : 63 V
Max. case temperature (tc) : 75 °C

Product data – type LNDC30W550LRP

Power factor	: 0,91–0,93C
Rated output current	: 550 mA
Rated output power	: 16,5–23,1 W
Output voltage range	: 30–42 Vdc
Uout	: 50 V
Max. case temperature (tc)	: 80 °C

Product data – type LNDC30W600LRP

Power factor	: 0,87–0,93C
Rated output current	: 600 mA
Rated output power	: 18–25,2 W
Output voltage range	: 30–42 Vdc
Uout	: 50 V
Max. case temperature (tc)	: 80 °C

Product data – type LNDC30W700LRP

Power factor	: 0,86–0,94C
Rated output current	: 700 mA
Rated output power	: 21–29,4 W
Output voltage range	: 30–42 Vdc
Uout	: 50 V
Max. case temperature (tc)	: 80 °C

Product data – type LNDC30W800LRP

Power factor	: 0,86–0,93C
Rated output current	: 800 mA
Rated output power	: 16,8–24 W
Output voltage range	: 21–30 Vdc
Uout	: 38 V
Max. case temperature (tc)	: 80 °C

Product data – type LNDC30W900LRP

Power factor	: 0,87–0,92C
Rated output current	: 900 mA
Rated output power	: 18,9–27 W
Output voltage range	: 21–30 Vdc
Uout	: 38 V
Max. case temperature (tc)	: 80 °C

Product data – type LNDC40W1000LRP

Power factor	: 0,91C–0,96
Rated output current	: 1000 mA
Rated output power	: 27–38 W
Output voltage range	: 27–38 Vdc
Uout	: 50 V
Max. case temperature (tc)	: 80 °C

Product data – type LNDC40W1050LRP

Power factor	: 0,93C–0,96
Rated output current	: 1050 mA

Rated output power : 28,4–39,9 W
Output voltage range : 27–38 Vdc
Uout : 50 V
Max. case temperature (tc) : 80 °C

Product data – type LNDC40W500LRP

Power factor : 0,87C–0,95
Rated output current : 500 mA
Rated output power : 20–28,5 W
Output voltage range : 40–57 Vdc
Uout : 67 V
Max. case temperature (tc) : 80 °C

Product data – type LNDC40W600LRP

Power factor : 0,87C–0,95
Rated output current : 600 mA
Rated output power : 24–34,2 W
Output voltage range : 40–57 Vdc
Uout : 67 V
Max. case temperature (tc) : 80 °C

Product data – type LNDC40W700LRP

Power factor : 0,92C–0,97
Rated output current : 700 mA
Rated output power : 28–39,9 W
Output voltage range : 40–57 Vdc
Uout : 67 V
Max. case temperature (tc) : 80 °C

Product data – type LNDC40W800LRP

Power factor : 0,89C–0,95
Rated output current : 800 mA
Rated output power : 24–35,2 W
Output voltage range : 30–44 Vdc
Uout : 55 V
Max. case temperature (tc) : 80 °C

Product data – type LNDC40W850LRP

Power factor : 0,9C–0,96
Rated output current : 850 mA
Rated output power : 25,5–37,4 W
Output voltage range : 30–44 Vdc
Uout : 55 V
Max. case temperature (tc) : 80 °C

Product data – type LNDC40W900LRP

Power factor : 0,94C–0,97
Rated output current : 900 mA
Rated output power : 27–39,6 W
Output voltage range : 30–44 Vdc
Uout : 55 V
Max. case temperature (tc) : 80 °C

Product data – type LNDC40W950LRP

Power factor	: 0,89C–0,95
Rated output current	: 950 mA
Rated output power	: 25,7–36,1 W
Output voltage range	: 27–38 Vdc
Uout	: 50 V
Max. case temperature (tc)	: 80 °C

Product data – type LNDC6W120LRP

Power factor	: 0,6–0,8C
Rated output current	: 120 mA
Rated output power	: 1,8–3,6 W
Output voltage range	: 15–30 Vdc
Uout	: 40 V
Max. case temperature (tc)	: 70 °C

Product data – type LNDC6W150LRP

Power factor	: 0,65–0,85C
Rated output current	: 150 mA
Rated output power	: 2,3–4,5 W
Output voltage range	: 15–30 Vdc
Uout	: 40 V
Max. case temperature (tc)	: 70 °C

Product data – type LNDC6W200LRP

Power factor	: 0,75–0,85C
Rated output current	: 200 mA
Rated output power	: 3–6 W
Output voltage range	: 15–30 Vdc
Uout	: 40 V
Max. case temperature (tc)	: 70 °C

Product data – type LNDC6W250LRP

Power factor	: 0,65–0,85C
Rated output current	: 250 mA
Rated output power	: 3,3–4,7 W
Output voltage range	: 13–19 Vdc
Uout	: 30 V
Max. case temperature (tc)	: 70 °C

Product data – type LNDC6W350LRP

Power factor	: 0,75–0,91C
Rated output current	: 350 mA
Rated output power	: 4,6–6,6 W
Output voltage range	: 13–19 Vdc
Uout	: 30 V
Max. case temperature (tc)	: 70 °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 343159400.

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 are potted. The LED controlgear is dimmable with DALI. The insulation between primary and secondary is SELV and between primary and housing is considered as double or reinforced insulation. The insulation between DALI and primary circuit is basis isolated and to the secondary circuit is 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 3431594.50.

Conclusion

The examination proved that all requirements were met.

Factory locations

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