

| Item | Value | Remark | |
|------------------------------|---------------------------------|-------------------|-------------------|
| Nominal voltage | 220–240V | | |
| Nominal frequency | 50–60Hz | | |
| AC voltage range | 198–264V | | |
| DC voltage range (start) | NA | | |
| DC voltage range (operation) | NA | | |
| Nominal current | | | |
| LNDC30W400LRP | 130mA | | |
| LNDC30W450LRP | 145mA | | |
| LNDC30W500LRP | 160mA | | |
| LNDC30W550LRP | 140mA | | |
| LNDC30W600LRP | 150mA | | |
| LNDC30W700LRP | 175mA | | |
| LNDC30W800LRP | 145mA | | |
| LNDC30W900LRP | 160mA | | |
| LNDC30W1000LRP | 180mA | | |
| Input | Total Harmonic Distortion (THD) | < 25% | Full load @230VAC |
| | Power factor | | Full load @230VAC |
| | LNDC30W400LRP | 0.85-0.92C | |
| | LNDC30W450/800LRP | 0.86-0.93C | |
| | LNDC30W500LRP | 0.87-0.94C | |
| | LNDC30W550LRP | 0.91-0.93C | |
| | LNDC30W600LRP | 0.87-0.93C | |
| | LNDC30W700/1000LRP | 0.86-0.94C | |
| | LNDC30W900LRP | 0.87-0.92C | |
| | Displacement factor | | Full load @230VAC |
| | LNDC30W400LRP | 0.85-0.92C | |
| | LNDC30W450/800LRP | 0.86-0.93C | |
| | LNDC30W500LRP | 0.87-0.94C | |
| | LNDC30W550LRP | 0.91-0.93C | |
| LNDC30W600LRP | 0.87-0.93C | | |
| LNDC30W700/1000LRP | 0.86-0.94C | | |
| LNDC30W900LRP | 0.87-0.92C | | |
| Efficiency | 85% (Typ.) | Full load @230VAC | |

| Item | Value | Remark | |
|------------------------|--|--------------------|---|
| No-load power | NA | | |
| Stand-by power | <0.5W | | |
| Protection class | NA | | |
| Input | Inrush current | 5.5 A / 35 μ s | |
| | | Type B , 10A MCB | 22 |
| | Max.units per circuit breaker | Type B , 16A MCB | 36 |
| | | Type C , 10A MCB | 28 |
| | | Type C , 16A MCB | 44 |
| Earth leakage current | NA | | |
| Nominal voltage range | | | |
| | LNDC30W400/450/500LRP | 36-54Vdc | |
| | LNDC30W550/600/700LRP | 30-42Vdc | |
| | LNDC30W800/900/1000LRP | 21-30Vdc | |
| Maximum voltage | | | |
| | LNDC30W400/450/500LRP | 63Vdc | |
| | LNDC30W550/600/700LRP | 50Vdc | |
| | LNDC30W800/900/1000LRP | 38Vdc | |
| Nominal current range | | | |
| Output | LNDC30W400LRP | 400mA | |
| | LNDC30W450LRP | 450mA | |
| | LNDC30W500LRP | 500mA | |
| | LNDC30W550LRP | 550mA | |
| | LNDC30W600LRP | 600mA | |
| | LNDC30W700LRP | 700mA | |
| | LNDC30W800LRP | 800mA | |
| | LNDC30W900LRP | 900mA | |
| | LNDC30W1000LRP | 1000mA | |
| | Current accuracy | \pm 5% | Full load @230VAC |
| | Typical output LF current ripple | \pm 5% | Low Frequency< 120Hz Full load @230VAC |
| Starting time | < 0.5 S | Full load @230VAC | |
| Nominal power range | | | |
| | LNDC30W400LRP | 14.4-21.6W | |
| | LNDC30W450LRP | 16.2-24.3W | |
| | LNDC30W500LRP | 18.0-27.0W | |
| | LNDC30W550LRP | 16.5-23.1W | |
| | LNDC30W600LRP | 18.0-25.2W | |
| | LNDC30W700LRP | 21.0-29.4W | |
| | LNDC30W800LRP | 16.8-24.0W | |
| | LNDC30W900LRP | 18.9-27.0W | |
| | LNDC30W1000LRP | 21.0-30.0W | |
| Maximum power | 30W | | |
| Dimming control | | | |
| | DALI/Touch Dim | | |
| Dimming technique | | | |
| | Amplitude | | |
| PWM frequency | | | |
| | NA | | |
| Dimming range | | | |
| | 5-100% | | |
| Lowest dimming current | | | |
| | 3-5% | | |
| Galvanic isolation | | | |
| | Basic insulated to PRI and double insulated to SEC | | |

| | | | | |
|-----------------------------------|------------------------------------|--|---|---|
| | Ambient temperature range t_a | -20°C - +50°C | | |
| | Maximum case temperature t_c | | | |
| | LNDC30W400/450/500LRP | 75°C | | |
| | LNDC30W550/600/700LRP | 80°C | | |
| | LNDC30W800/900/1000LRP | 80°C | | |
| | Max. case temp. in fault condition | 110°C | When operating under fault conditions, the temperature of the enclosure at any location should not exceed 110 °C. | |
| Environment | Storage temperature range | -40°C - +85°C | | |
| | Relative humidity | 10% - 95% | | |
| | Surge transient protection | 1 kV | L/N | |
| | Environmental rating | Indoor | | |
| | IP rating | IP20 | | |
| | Mains switching cycles | > 100,000 | | |
| | Expected lifetime | | | |
| | LNDC30W400/450/500LRP | > 50,000 h, t_c 75 °C @ t_a 50 °C | 0.2 % / 1,000 h failure rate | |
| | LNDC30W550/600/700LRP | > 100000 h, t_c 65 °C @ t_a 40 °C | 0.1 % / 1,000 h failure rate | |
| | LNDC30W800/900/1000LRP | > 50,000 h, t_c 80 °C @ t_a 50 °C | 0.2 % / 1,000 h failure rate | |
| | LNDC30W800/900/1000LRP | > 100000 h, t_c 70 °C @ t_a 40 °C | 0.1 % / 1,000 h failure rate | |
| Packing | Gross weight/Carton | 12.9 kg | | |
| | Net weight/Carton | 11.9 kg | | |
| | Pcs/Carton | 56 PCS | | |
| | Dimension/Carton | 490(L)*270(W)*225(H)mm | | |
| Protections | | | | |
| | Short-circuit Protection | Auto recovery | | |
| | Open-circuit Protection | Auto recovery | | |
| | Overload Protection | Auto recovery | | |
| Conformity & Standards | | | | |
| | Safety standard: | EN 61347-1, EN 61347-2-13, EN 62493 | | |
| | Performance: | EN 62384 | | |
| | SAA standard: | AS/NZS 61347.1, AS/NZS IEC 61347.2.13 | | |
| | CCC standard: | GB17625.1,GB/T17743,GB19510.1,GB19510.14 | | |
| | EMC standard: | EN 55015, EN 61000-3-2, EN 61000-3-3, EN 61547 | | |
| | DALI protocol standard: | EN 62386-101, EN 62386-102, EN 62386-207 | | |
| Cable information | | | | |
| PRI | Connection | L | N | |
| | Color | Brown | Blue | |
| | Wire type | 7022 | 7022 | |
| | Wire diameter | AWG18 | AWG18 | |
| | Wire length | 128mm | 128mm | |
| | Stripping | 6mm | 6mm | |
| | Tolerance | ±5mm | ±5mm | |
| | Sec | Connection | + | - |
| Color | | Red | Black | |
| Wire type | | 1332 | 1332 | |
| Wire diameter | | AWG20 | AWG20 | |
| Wire length | | 149mm | 149mm | |
| Stripping | | 10mm | 10mm | |
| Tolerance | | ±5mm | ±5mm | |

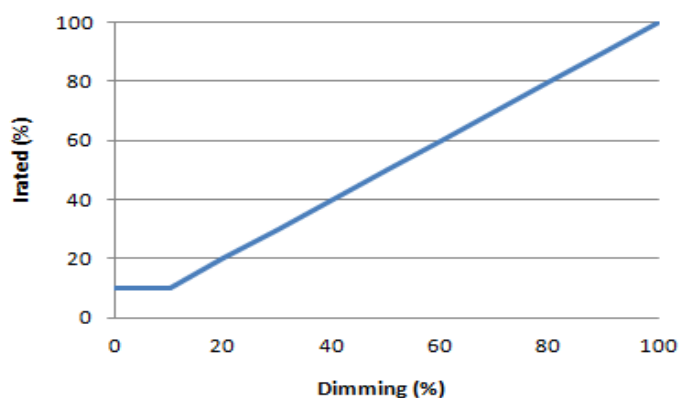
| | | |
|----------------------------------|--------|-------|
| DALI/Touch Dim Connection | DA | DA |
| Color | Purple | Gray |
| Wire type | 7022 | 7022 |
| Wire diameter | AWG20 | AWG20 |
| Wire length | 135mm | 135mm |
| Stripping | 10mm | 10mm |
| Tolerance | ±5mm | ±5mm |

Subject to change without notice, HEP guarantees all products perform functionally well

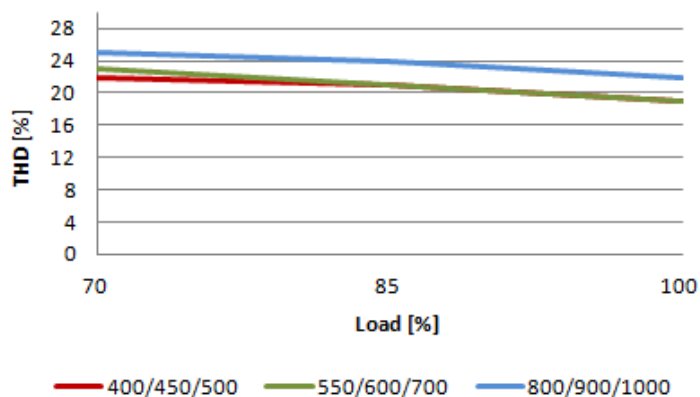
* If not mentioned, all the test conditions are based on full load at 230VAC input (for 220-240 VAC input).

Electrical Values

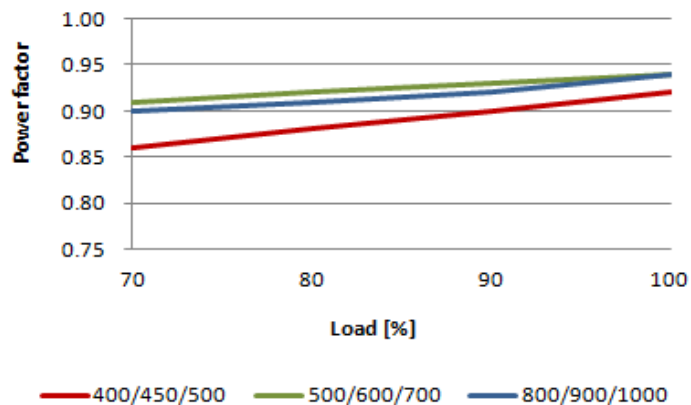
Dimming Curve



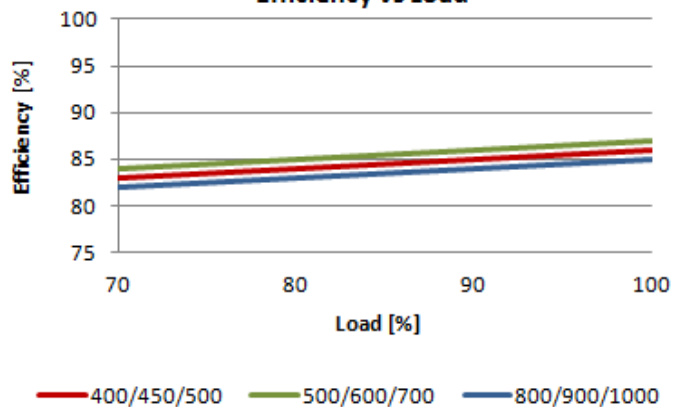
THD vs Load



Power factor vs Load

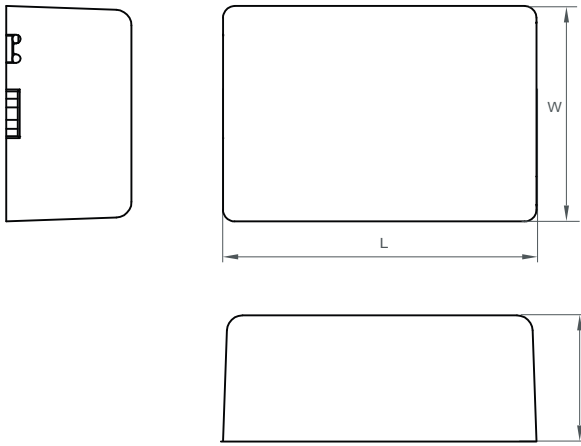


Efficiency vs Load



Physical
Parameter

Clear type

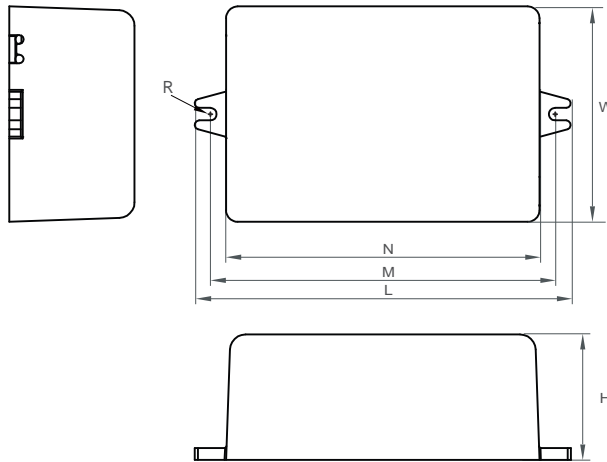


L : 80 mm W: 55 mm H: 32 mm

Tolerance : +/-1 mm

Housing Material : Polycarbonate / Potting
Soldering : Lead-Free, Comply With RoHS
Label : Surface Print

Screw clip type



L : 96 mm M: 88.2 mm N : 80 mm

W: 55 mm H: 32 mm R: 1.6 mm

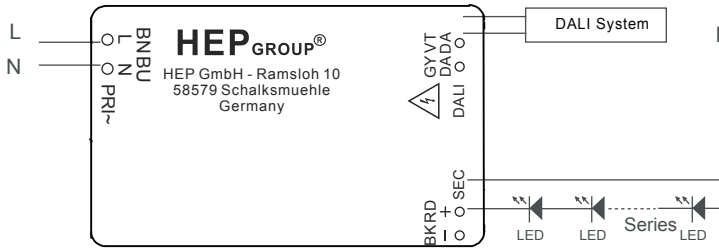
Tolerance : +/-1 mm , R : +/-0.5 mm

Housing Material : Polycarbonate
Soldering : Lead-Free, Comply With RoHS
Label : Surface Print

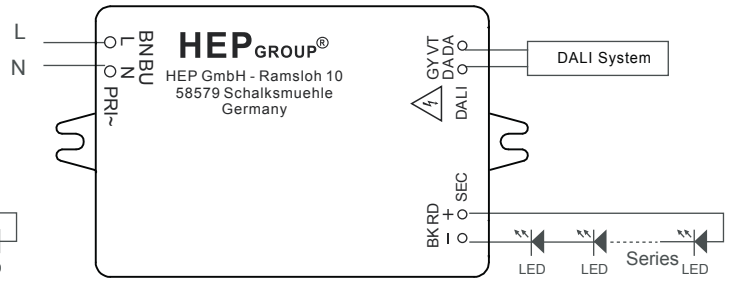
Wiring Diagram

DALI system

Clear type

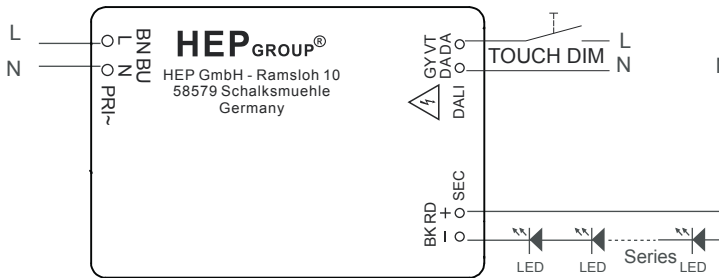


Screw clip type

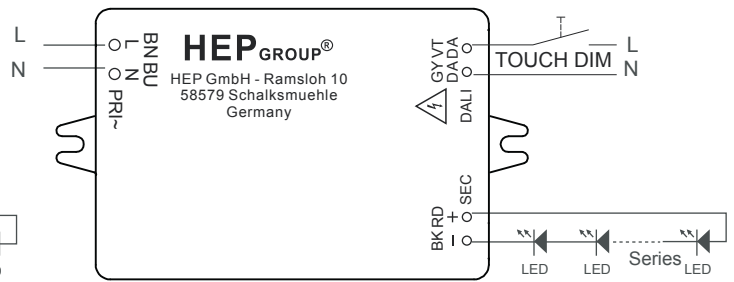


TOUCH DIM

Clear type



Screw clip type



* Touch Dim

Short push (<0.6sec.) Push to turn ON-OFF
 Long push (>0.6sec.) Dimming up or down

Synchronization of Touch DIM

If a large number of driver with Touch Dim is operated in a system there is a chance that an driver will operate out of synchronization with the others(= different dimming level setting or different switching state).

Synchronism can be restored as follows:

- 1.Step: Long push all the lamps are switched on
- 2.Step: Short push all the lamps are switched off
- 3.Step: Long push all the lamps are switched on the minimum dimming setting of the drivers and continuously fade up to the desired dimming level, then release push bottom.

Max. lead length : 20 M

Max. parallel units : 15 pcs