

E-Dimming LED Driver

Design and Quality EASEIC of USA

LNT145D

E-DIMMING TRIAC DRIVER

SPEC SHEET



45W 32V 1.40A TRIAC Dim
LNT145D
65404504



SELV RoHS

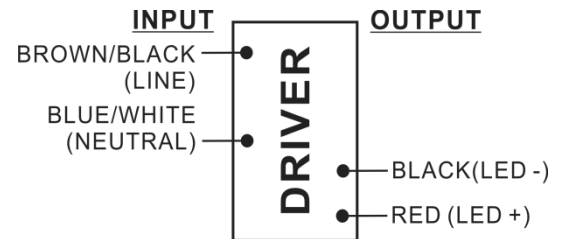
Features

- Compatible with industry standard TRIAC(forward-phase or Leading-edge) and ELV(Reverse-phase or Trailing-edge) phase-cut dimmers
- Designed for LED lighting applications
- Compact form factor, Fully isolated plastic case
- Class 2 power unit
- Cooling by free air convection
- high reliability, low cost
- Suitable for dry, damp, and wet location
- 5 year warranty

Benefits

- Enables design of low profile and compact fixtures
- Helps to maximize energy savings and allows application specific light levels

Wire Diagram



Note:

Install in accordance with National and Local Electrical Codes.

Use 18 AWG solid copper wire rated $\geq 300V/85\text{ C}$.

Strip wire 3/8".

Please pay special attention to wiring installation guidelines,

Wrong wiring will cause damage to the LED driver.

Before connection the power, make sure you have access to the LED load.

Product Data

| Input Voltage (Vac) | Output Power (W) | Output Voltage (V) | Output Current (A) | Efficiency @Max Load and 70°C case | Max Case Temp. (°C) | Input Current (Arms) | Max Input Power (W) | THD @Max Load (%) | Power Factor @Max Load | Weight (Lbs/kgs) | Envir. Protection Rating |
|---------------------|------------------|--------------------|--------------------|------------------------------------|-----------------------|----------------------|---------------------|-------------------|------------------------|------------------|--------------------------|
| 220 | 45 | 15-32 | 1.40 | 82.0 | Life-75°C TUV-85°C | 0.25 | 55.3 | <20% | >0.95 | 1.10/0.50 | damp and dry |
| 230 | | | | 82.0 | | 0.24 | | <20% | | | |
| 240 | | | | 82.0 | | 0.24 | | <20% | | | |

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Electrical Specifications

| Ordering Information | | | |
|--|--|--------------|--------------|
| Type | LNT145D | | |
| Order Code | 65404504 | | |
| Full product name | E-Dimming 45W 32V 1.40A TRIAC Dim | | |
| Input Information | | | |
| Line Voltage | 220-240Vac_rms | | |
| Line Current | 0.25A@220VAC | 0.24A@230VAC | 0.24A@240VAC |
| Line Frequency | 50/60Hz | | |
| Min, Mains Voltage operational | 198[min] | | |
| Max, Mains Voltage operational | 264[max] | | |
| THD(total) | <20% | | |
| Power Factor(PF) | >0.95 | | |
| Inrush Current(Typ.) | Cold Start 15A(twidth=270us measured at 50% Ipeak) at 230VAC | | |
| Leakage Current(Typ.) | <0.5mA/230VAC | | |
| Output Information | | | |
| Output voltage | 15V to 32V | | |
| Output Constant Current | 1.40A | | |
| Maximum open circuit voltage | <60V | | |
| Output Current Ripple (ripple=peak to peak) | 10% of nominal output voltage (whichever is greater),measured at 20Mhz bandwidth with 0.1uf ceramic capacitor in parallel with 10uf electrolytic capacitor connected at the end of the output connector. | | |
| Protections | Over Current, Over Voltage, Short Circuit and Open Circuit Protection for LED+ and LED- | | |
| Ambient Temp Range | -20°C to +60°C, 20-95% RH non-condensing | | |
| Max Case Temperature(Tc) | 75°C for Life & 85°C for TUV Safety | | |
| Features | | | |
| Dimming Interface | TRIAC(forward-phase or Leading-edge) phase-cut dimming ELV(Reverse-phase or Trailing-edge) phase-cut dimming | | |
| Approved Dimmer List(Manufacturer) | ABB,CLIPSAL,HAGER,BERKER,JUNG,PHILIPS DYNALITE, LEGRAND,EASEIC,LUTRON,LEVITON TRIAC(forward-phase or Leading-edge) and ELV(Reverse-phase or Trailing-edge) phase-cut dimmer | | |
| Dimming range | 5-100% or 0-100% | | |
| Environment & Approbation | | | |
| Environmental Protection Rating | TUV damp and dry | | |
| Agency Approbations | UL8750,UL1310, CSA-C22.2 No.250.0-08,ENEC EN61347-1,EN61347-2-13 independent, EN62384, TUV EN60950-1 | | |
| Electromagnetic Compliance | FCC Title 47 Part 15 Class A Compliance to EN55015,EN61000-3-2 Class C(@100% Load);EN6100-3-3 Compliance to EN61000-4-2,3,4,5,6,8,11;EN61547,EN55024, light industry level(surge 2KV), criteria A | | |
| Audible noise | <24dB Class A | | |

All the specifications are typical and at 25 °C Tcase unless specified otherwise

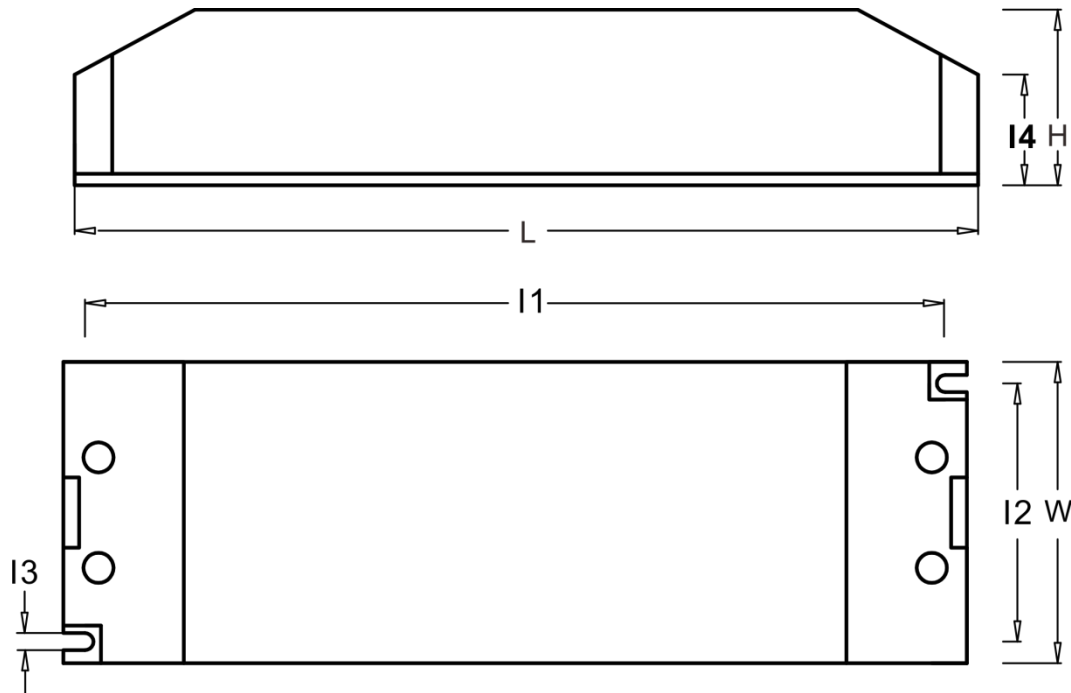
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Mechanical Specifications

Mechanical Drawing:



Dimensions

| | In. | mm |
|--------------------|------|-----|
| Case Length(L) | 7.0 | 180 |
| Case Width(W) | 2.4 | 60 |
| Case Height(H) | 1.4 | 35 |
| Mounting Holes(I1) | 6.7 | 170 |
| Mounting Holes(I2) | 2.0 | 50 |
| Mounting Holes(I3) | 0.13 | 3.4 |
| Mounting Holes(I4) | 0.9 | 22 |
| Overall Length | 7.0 | 180 |

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