# E-Dimming LED Driver

Design and Quality EASEIC of USA

# LNT180F

## E-DIMMING TRIAC DRIVER

SPEC SHEET

80W 120V 0.70A TRIAC Dim
LNT180F
69408006



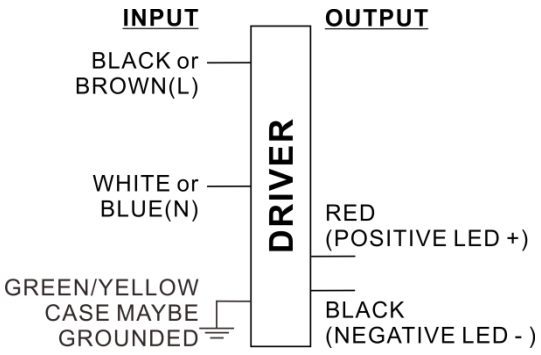
## Features

- 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.

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℃ case | Max Case Temp. (℃) | Input Current (Arms) | Max Input Power (W) | THD @Max Load (%) | Power Factor @Max Load | Weight (Lbs/kgs) | Envir. Protection Rating |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 100 | 80 | 85-120 | 0.70 | 82.0 | Life-75℃ UL-85℃ | 1.03 | 102.6 | <20% | >0.95 | 2.40/1.10 | damp and dry |
| 110 | | | | 82.0 | | 0.93 | | <20% | | | |
| 120 | | | | 82.0 | | 0.86 | | <20% | | | |

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## Electrical Specifications

| | | | |
|---|---|---|---|
| **Ordering Information** | | | |
| Type | LNT180F | | |
| Order Code | 69408006 | | |
| Full product name | E-Dimming 80W 120V 0.70A TRIAC Dim | | |
| **Input Information** | | | |
| Line Voltage | 100-120Vac_rms | | |
| Line Current | 1.03A@100VAC | 0.93A@230VAC | 0.86A@240VAC |
| Line Frequency | 50/60Hz | | |
| Min, Mains Voltage operational | 90[min] | | |
| Max, Mains Voltage operational | 132[max] | | |
| THD(total) | <20% | | |
| Power Factor(PF) | >0.95 | | |
| Inrush Current(Typ.) | Cold Start 25A(twidth=270us measured at 50% Ipeak) at 230VAC | | |
| Leakage Current(Typ.) | <0.5mA/230VAC | | |
| **Output Information** | | | |
| Output voltage | 85V to 120V | | |
| Output Constant Current | 0.70A | | |
| 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℃ to +60℃, 20-95% RH non-condensing | | |
| Max Case Temperature(Tc) | 75℃ for Life & 85℃ for UL Safety | | |
| **Features** | | | |
| Dimming Interface | TRIAC(forward-phase or Leading-edge) phase-cut dimming<br>ELV(Reverse-phase or Trailing-edge) phase-cut dimming | | |
| Approved Dimmer List(Manufacturer) | ABB,CLIPSAL,HAGER,BERKER,JUNG,PHILIPS DYNALITE, LEGRAND,EASEIC,LUTRON,LEVITON<br>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 | UL damp and dry | | |
| Agency Approbations | UL8750,UL1310, UL935,CSA-C22.2 No.250.13-12,CSA C22.2 No.233 | | |
| Electromagnetic Compliance | FCC Title 47 Part 15 Class A | | |
| Audible noise | <24dB Class A | | |

*All the specifications are typical and at 25 ℃ Tcase unless specified otherwise*

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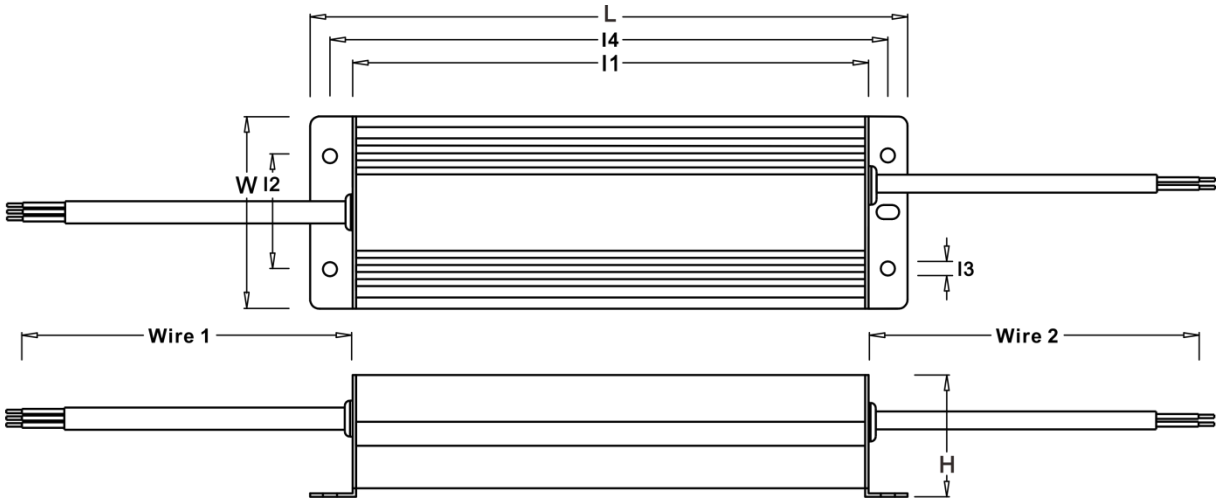
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## Mechanical Specifications

## Mechanical Drawing:




## Dimensions

| | In. | mm |
|---|---|---|
| Case Length(L) | 7.9 | 200 |
| Case Width(W) | 2.8 | 70 |
| Case Height(H) | 1.8 | 46 |
| Mounting Holes(l1) | 6.9 | 175 |
| Mounting Holes(l2) | 1.6 | 40 |
| Mounting Holes(l3) | 0.2 | 5 |
| Mounting Holes(l4) | 7.3 | 185 |
| Input Wire(Wire1)<br>SJTW 18 AWG x 3C | 8.0 | 200±20 |
| Output Wire(Wire2)<br>SJTW 18 AWG x 2C | 8.0 | 200±20 |
| Overall Length | 8.0 | 200 |

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