

# E-Dimming LED Driver

Design and Quality EASEIC of USA

# LNT120I E-DIMMING TRIAC DRIVER

SPEC SHEET



21W 22V 1.05A TRIAC Dim  
LNT120I  
65402009



**SELV RoHS**

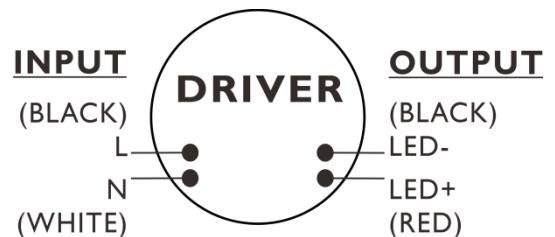
## Features

- 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.  
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 |
|---------------------|------------------|--------------------|--------------------|------------------------------------|----------------------|----------------------|---------------------|-------------------|------------------------|------------------|--------------------------|
| 100                 | 21               | 16-22              | 1.05               | 80.0                               | Life-75°C<br>UL-85°C | 0.29                 | 29.1                | <20%              | >0.90                  | 0.17/0.08        | damp and dry             |
| 110                 |                  |                    |                    | 80.0                               |                      | 0.27                 |                     | <20%              |                        |                  |                          |
| 120                 |                  |                    |                    | 80.0                               |                      | 0.24                 |                     | <20%              |                        |                  |                          |

# LNT120I

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#### Electrical Specifications

| <b>Ordering Information</b>                    |  |              |              |
|--|--|--------------|--------------|
| Type   | LNT120I  |              |              |
| Order Code                                     | 65402009   |              |              |
| Full product name                              | E-Dimming 21W 22V 1.05A TRIAC Dim  |              |              |
| <b>Input Information</b>                       |  |              |              |
| Line Voltage                                   | 100-120Vac_rms   |              |              |
| Line Current                                   | 0.29A@100VAC   | 0.27A@110VAC | 0.24A@120VAC |
| Line Frequency                                 | 50/60Hz  |              |              |
| Min, Mains Voltage operational                 | 90[ <i>min</i> ]   |              |              |
| Max, Mains Voltage operational                 | 132[ <i>max</i> ]  |              |              |
| THD(total)                                     | <20%   |              |              |
| Power Factor(PF)                               | >0.90  |              |              |
| Inrush Current(Typ.)                           | Cold Start 10A( <i>t</i> <sub>width</sub> =270us measured at 50% I <sub>peak</sub> ) at 230VAC   |              |              |
| Leakage Current(Typ.)                          | <0.5mA/230VAC  |              |              |
| <b>Output Information</b>                      |  |              |              |
| Output voltage                                 | 16V to 22V   |              |              |
| Output Constant Current                        | 1.05A  |              |              |
| Maximum open circuit voltage                   | <60V   |              |              |
| Output Current Ripple<br>(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,<br>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  |              |              |
| <b>Features</b>                                |  |              |              |
| 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,<br>LEGRAND,EASEIC,LUTRON,LEVITON<br>TRIAC(forward-phase or Leading-edge) and ELV(Reverse-phase or<br>Trailing-edge) phase-cut dimmer                     |              |              |
| Dimming range                                  | 5-100% or 0-100%   |              |              |
| <b>Environment &amp; Approbation</b>           |  |              |              |
| 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 °C T<sub>case</sub> unless specified otherwise

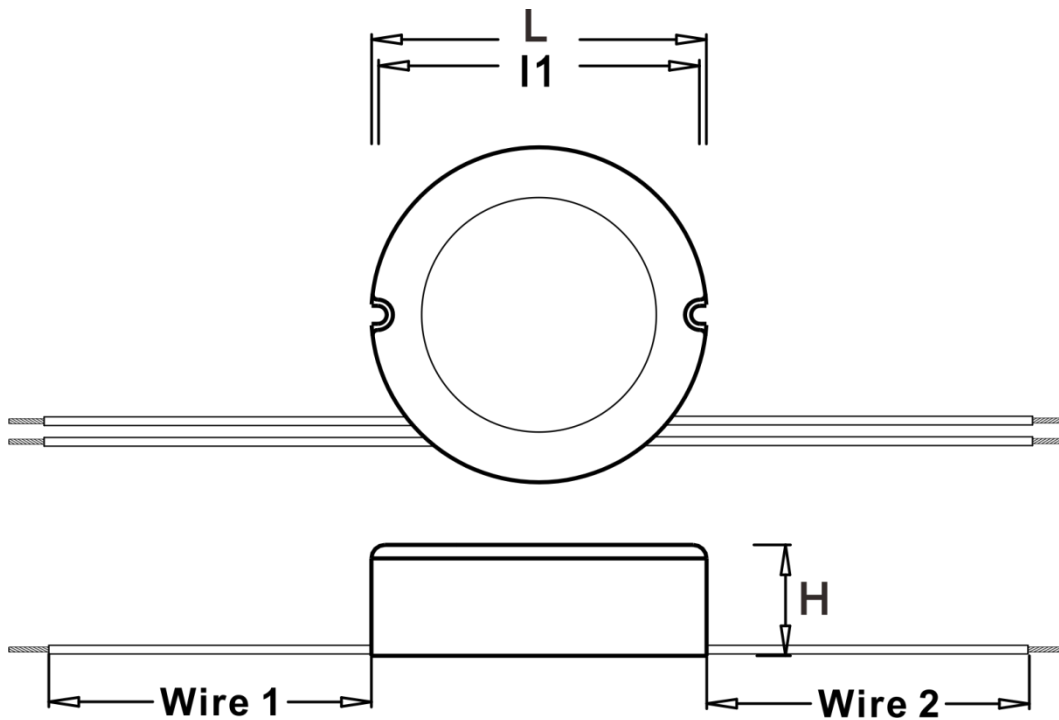
# LNT1201

## E-DIMMING TRIAC DRIVER

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#### Mechanical Specifications

#### Mechanical Drawing:



#### Dimensions

|   | In. | mm       |
|---|-----|----------|
| Case Length(L)  | 3.0 | 77       |
| Case Height(H)  | 1.1 | 27.5     |
| Mounting Holes(11)                                      | 2.8 | 71       |
| Input Wire(Wire1)<br>18 AWG x 2<br>L:BLACK,N:WHITE      | 6.0 | 150 ± 10 |
| Output Wire(Wire2)<br>18 AWG x 2<br>LED+:RED,LED-:BLACK | 6.0 | 150 ± 10 |
| Overall Length  | 3.0 | 77       |

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www.easeic.com

#### Easeic Inc.

27 Hall Street, Brooklyn, NY 11205  
Tel.: 1-718-243-9388  
Fax: 1-718-243-9403  
Customer Support  
Customer Care: 1-646-4029788  
E-Mail: ny@easeic.com

#### Easeic Asia Limited.

Rm. 19C, Lockhart Ctr., 301-307  
Lockhart Rd., Wan Chai, Hong Kong  
Tel.: 852-6955-8075  
Fax: 852-6915-3639  
E-Mail: info@easeic.com

#### Easeic Sci-tech Co., Ltd.

No. 37 Huancun Xi Rd., Liangtian  
Industrial Area,  
Baiyuan District, Guangzhou, China  
Tel.: 86-20-8230-9676  
Fax: 86-20-8230-9677  
E-Mail: sales@easeic.com