

# E-Dimming LED Driver

Design and Quality EASEIC of USA

# LNT120E E-DIMMING TRIAC DRIVER

SPEC SHEET



21W 16V 1.40A TRIAC Dim  
LNT120E  
65402005



**SELV RoHS**

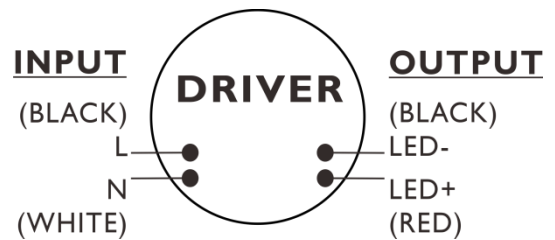
## Features

- 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
220	21	11-16	1.40	80.0	Life-75°C TUV-85°C	0.13	28.6	<20%	>0.90	0.17/0.08	damp and dry
230				80.0		0.12		<20%			
240				80.0		0.12		<20%			

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#### Electrical Specifications

<b>Ordering Information</b>			
Type	LNT120E		
Order Code	65402005		
Full product name	E-Dimming 21W 16V 1.40A TRIAC Dim		
<b>Input Information</b>			
Line Voltage	220-240Vac_rms		
Line Current	0.13A@220VAC	0.12A@230VAC	0.12A@240VAC
Line Frequency	50/60Hz		
Min, Mains Voltage operational	198[ <i>min</i> ]		
Max, Mains Voltage operational	264[ <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>I</i> <sub>peak</sub> ) at 230VAC		
Leakage Current(Typ.)	<0.5mA/230VAC		
<b>Output Information</b>			
Output voltage	11V to 16V		
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		
<b>Features</b>			
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%		
<b>Environment &amp; Approbation</b>			
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)	3.0	77
Case Height(H)	1.1	27.5
Mounting Holes(H)	2.8	71
Input Wire(Wire1) 18 AWG x 2 L:BLACK,N:WHITE	6.0	150 ± 10
Output Wire(Wire2) 18 AWG x 2 LED+:RED,LED-:BLACK	6.0	150 ± 10
Overall Length	3.0	77

**EASEIC**

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