E-Dimming LED Driver

Design and Quality EASEIC of USA

LNT180D

E-DIMMING TRIAC DRIVER

SPEC SHEET

80W 55V 1.40A TRIAC Dim
LNT180D
69408004



SELV RoHS

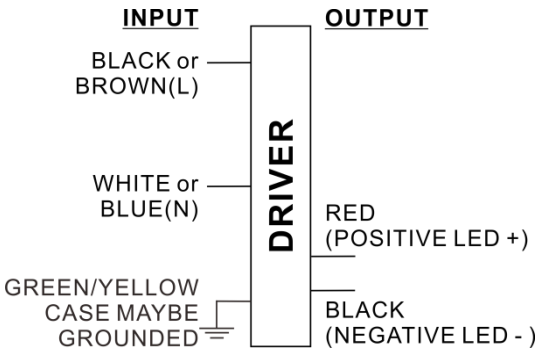
Features

- 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℃ case	Max Case Temp. (℃)	Input Current (Arms)	Max Input Power (W)	THD @Max Load (%)	Power Factor @Max Load	Weight (Lbs/kgs)	Envir. Protection Rating
220	80	28-55V	1.40	82.0	Life-75℃ TUV-85℃	0.47	102.6	<20%	>0.95	2.40/1.10	damp and dry
230				82.0		0.45		<20%			
240				82.0		0.43		<20%			

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Electrical Specifications

Ordering Information			
Type	LNT180D		
Order Code	69408004		
Full product name	E-Dimming 80W 55V 1.40A TRIAC Dim		
Input Information			
Line Voltage	220-240Vac_rms		
Line Current	0.47A@220VAC	0.45A@230VAC	0.43A@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 25A(twidth=270us measured at 50% Ipeak) at 230VAC		
Leakage Current(Typ.)	<0.5mA/230VAC		
Output Information			
Output voltage	28V to 55V		
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℃ to +60℃, 20-95% RH non-condensing		
Max Case Temperature(Tc)	75℃ for Life & 85℃ 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	ENEC EN61347-1,EN61347-2-13 independent, EN62384, TUV EN60950-1		
Electromagnetic Compliance	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 ℃ Tcase unless specified otherwise

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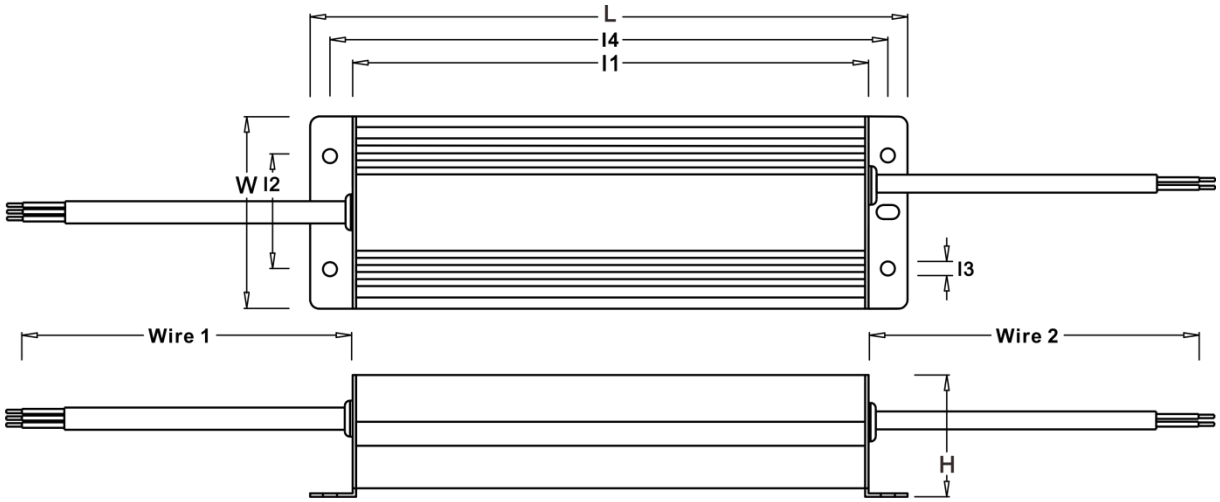
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Mechanical Specifications

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) SJTW 18 AWG x 3C	8.0	200±20
Output Wire(Wire2) SJTW 18 AWG x 2C	8.0	200±20
Overall Length	8.0	200

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