

Smart LED Driver

Design and Quality EASEIC of USA

LNNI54 BL Smart E-Professional DRIVER

SPEC SHEET



54W 12-42V 1050-1750mA E-Pro
LNNI54 BL
671154



SELV RoHS

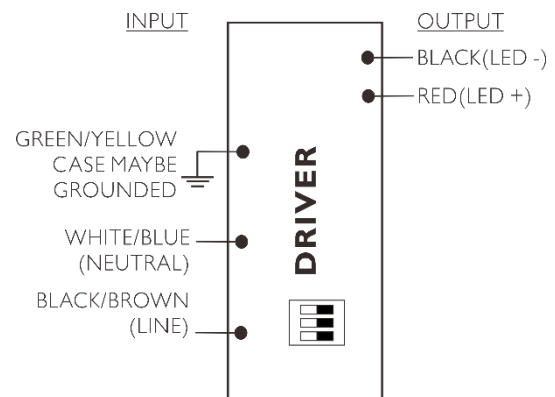
Features

- Multilevel current output, Constant current output 1050-1750mA
- Multi-power driver supplied with dip-switch for the selection of the output current
- Universal AC input (90~265Vac)
- Designed for LED lighting applications
- UL Class 2 output, Class 2 protection against electric shock for direct or indirect contact
- Compact form factor, Fully isolated metal case.
- Can be switched on and off on secondary circuit for power LED.
- Protections: Short circuit , Over voltage, Over Current
- 5 year warranty

Benefits

- Enables design of low profile and compact fixtures
- Helps to maximize energy savings and allows application specific light levels
- Supports majority of available dimming solutions

Wire Diagram



Note:

Install in accordance with National and Local Electrical Codes.

Use 16-24 AWG solid copper wire rated $\geq 300V/85^{\circ}C$.

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.

LNN154 BL

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Electrical Specifications

Ordering Information			
Type	LNN154 BL		
Order Code	671154		
Full product name	Smart 54W 12-42V 1050-1750mA E-Pro		
Input Information			
Line Voltage	100-240Vac_rms		
Line Current	0.65A@100VAC	0.54A@120VAC	0.29A@230VAC
Line Frequency	50/60Hz		
Min, Mains Voltage operational	90[min]		
Max, Mains Voltage operational	265[max]		
THD(total)	<20%		
Power Factor(PF)	>0.95		
Input Power (Max.)	64.6W		
Efficiency @Max Load and 70°C case	87%@100VAC	87%@100VAC	87%@100VAC
Inrush Current(Typ.)	Cold Start 70A(twidth=270us measured at 50% Ipeak) at 230VAC		
Leakage Current(Typ.)	<0.75mA/230VAC		
Output Information			
Output Power	12-54W(See Output current settings table)		
Output voltage	12V to 42V		
Output Constant Current	1050-1750mA ±5%(See Output current settings table)		
Maximum open circuit voltage	<60V		
Output Current Ripple (ripple=peak to peak)	2% 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 +50°C, 20-95% RH non-condensing		
Max Case Temperature(Tc)	75°C for Life & 85°C for UL Safety		
Environment & Approbation			
Environmental Protection Rating	UL 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		
Other information			
Dimension	280x30x26mm (LxWxH)		
Packing	0.23Kg(0.51lbs); 40Pcs/10.1kg(22.2Lbs)		

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

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Output Current Settings

LNN154 BL, Constant Current output 1050-1750mA.

Multi-power driver supplied with dip-switch for the selection of the output current.

Factory default setting is 1050mA.

LNN154 BL		DIP-Switch Settings			
Pout Max.	Vout DC	Iout DC	1	2	3
44W	12-42V	1050mA	--	--	--
50W	12-42V	1200mA	ON	--	--
54W	12-42V	1300mA	--	ON	--
54W	12-39V	1400mA	--	--	ON
54W	12-35V	1550mA	ON	--	ON
54W	12-34V	1600mA	--	ON	ON
54W	12-31V	1750mA	ON	ON	ON

Suggested max. number of the LNX units that can be connected to a MCB@230VAC

MCB	B10	B16	C10	C16
LNN154 BL	9	15	16	26

Note: These calculated values are based on MCB S201 series manufactured by ABB

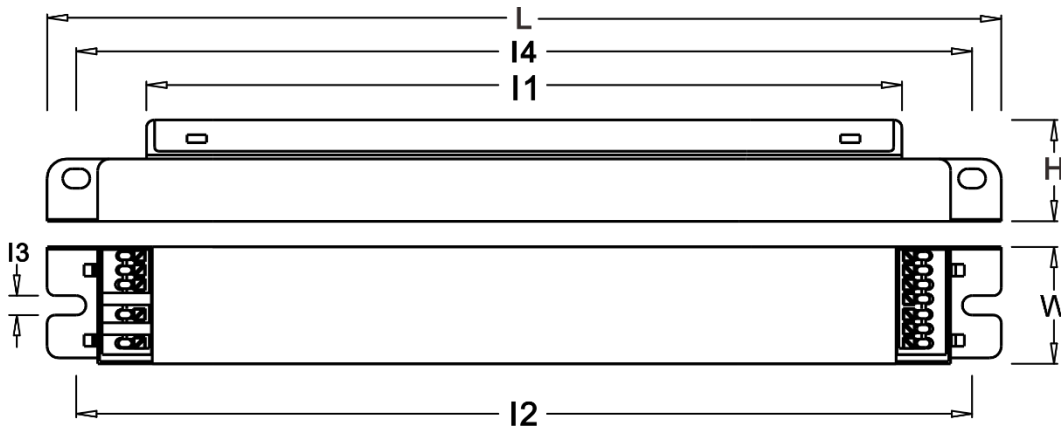
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Mechanical Specifications

Mechanical Drawing:



Dimensions

	In.	mm
Case Length(L)	11.0	280
Case Width(W)	1.2	30
Case Height(H)	1.0	26
Mounting Holes(I1)	8.7	222
Mounting Holes(I2)	10.6	270
Mounting Holes(I3)	0.2	5
Mounting Holes(I4)	10.6	270
Overall Length	11.0	280

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