

# Smart LED Driver

Design and Quality EASEIC of USA

## LNNI54 BC Smart E-Professional DRIVER

SPEC SHEET



54W 12-42V 1050-1750mA E-Pro  
LNNI54 BC  
681154



**SELV RoHS**

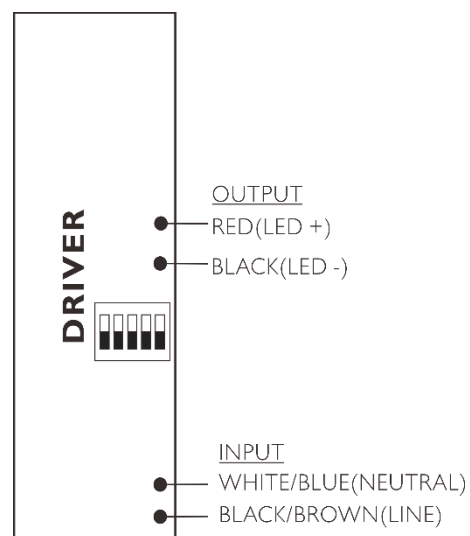
### Features

- 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
- Supplied with terminal cover and cable retainer.
- 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

### 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.

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#### Electrical Specifications

Ordering Information			
Type	LNNI54 BC		
Order Code	681154		
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[ <i>min</i> ]		
Max, Mains Voltage operational	265[ <i>max</i> ]		
THD( <i>total</i> )	<20%		
Power Factor(PF)	>0.95		
Input Power ( <i>Max.</i> )	64.6W		
Efficiency @Max Load and 70°C case	87%@100VAC	87%@120VAC	88%@230VAC
Inrush Current(Typ.)	Cold Start 70A( <i>t</i> <sub>width</sub> =270us measured at 50% <i>I</i> <sub>peak</sub> ) 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= <i>peak to peak</i> )	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(T <sub>c</sub> )	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	118x67x30mm (LxWxH)		
Packing	0.17Kg(0.37lbs): 30Pcs/5.1kg(11.2Lbs)		

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

#### Output Current Settings

# LNNI54 BC

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LNNI54 BC, Constant Current output 1050-1750mA.

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

Factory default setting is 1050mA.

LNNI54 BC		DIP-Switch Settings				
Pout Max.	Vout DC	Iout DC	1	2	3	4
44W	12-42V	1050mA	--	--	--	--
51W	12-42V	1200mA	ON	--	--	--
54W	12-42V	1300mA	--	ON	--	--
54W	12-39V	1400mA	--	--	ON	--
54W	12-35V	1550mA	--	--	--	ON
54W	12-34V	1600mA	--	ON	ON	--
54W	12-31V	1750mA	--	ON	--	ON

Constant Voltage						
15W	12V(Cost.)	0-1250mA	ON	ON	--	--
30W	24V(Cost.)	0-1250mA	ON	ON	--	ON
40W	36V(Cost.)	0-1100mA	ON	ON	ON	--

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

MCB	B10	B16	C10	C16
LNNI54 BC	9	15	16	26

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

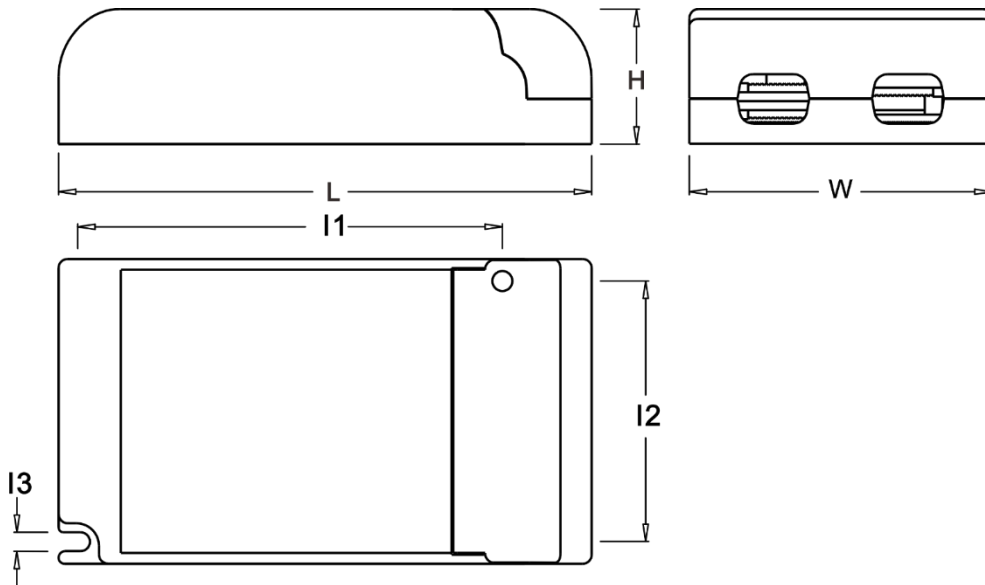
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#### Mechanical Specifications

#### Mechanical Drawing:



#### Dimensions

	In.	mm
Case Length(L)	4.6	118
Case Width(W)	2.6	67
Case Height(H)	1.2	30
Mounting Holes(I1)	3.7	94
Mounting Holes(I2)	2.3	58
Mounting Holes(I3)	0.19	4.8
Overall Length	4.6	118

**EASEIC**

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