Design and Quality EASEIC of USA

54W 12-42V 1050-1750mA 0/1-10V Dim LNAI54 BL 672154



SELV RoHS

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Features

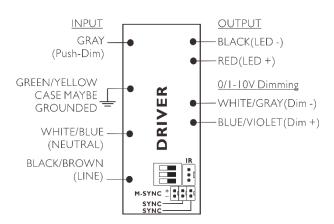
Smart

- Multilevel current output, Constant current output 1050-1750mA
- Multi-power driver supplied with dip-switch for the selection of the output current
- Built-in infrared remote control dimming control.
- Built-in 3 in 1 dimming function(0/1-10V,PWM or Resistance)
- Dimming range from 0 -100%.
- SYNC Dim, On/off Dim and PUSH-Dim, dimming and switching via push-button with memory function.
- 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 >=300V/85°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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LNAI54 BL Smart F-Dim 0/1-10V DRIVER



ED Driver

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Electrical Specifications

Ordering Information					
Туре	LNAI54 BL				
Order Code	672154				
Full product name	Smart 54W 12-42V 1050-1750mA 0/1-10V Dim				
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% lpeak) 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	2% of nominal output voltage (whichever is greater), measured at 20Mhz				
(ripple=peak to peak)	bandwidth with 0.1 uf ceramic capacitor in parallel with 10 uf 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				
Dimming Features					
-					
Dimming Interface	0/I-10V, Push-Dim, On/off Dim, IOK PWM, Resistance, IR, SYNC				
0/1-10V Dimming Specifications	Sink Current <0.5mA				
Dimming range	0-100%				
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 $^{\circ}C$ Tcase unless specified otherwise



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Output Current Settings

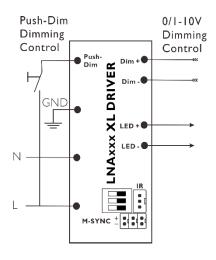
LNA154 BL, Constant Current output 1050-1750mA. Multi-power driver supplied with dip-switch for the selection of the output current. Factory default setting is 1050mA.

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LNA154 BL		DIP-Switch Settings			
Pout Max.	Vout DC	lout DC	I	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	12-3IV	1750mA	ON	ON	ON

Dimming Control Wiring Diagrams

Push-dim 0-100% dimming control



By pressing the push button for less than one second the LEDs turn on or off. By pressing the push button for more than one second the light intensity of the LEDs is dimmed according to the following modalities:

- If the light intensity is not at maximum, by pressing the key there will be an increase of this to maximum or to the corresponding level at the moment the key is released;
- A further pressure on the key inverts the dimming direction to the minimum value or to the corresponding level at the moment the key is released;
- If light intensity is at maximum by pressing the key there will be a decrease to the minimum value or to the corresponding level at the moment the key is released.

Total length of PUSH cables <20m. Factory dimming setting at 100%.



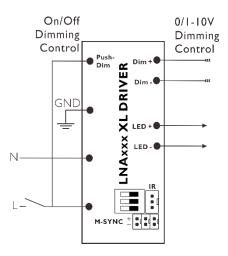
Note: Only use self-reset push button without indicator light. Risk of short circuit. The self-reset button can only be linked between the Push-dim and the L(AC).

Do Not connect the self-reset button to the $\ensuremath{\mathsf{N}}(\ensuremath{\mathsf{AC}})$



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> On/Off sectional dimming control



By pressing the push button for less than one second the LEDs turn on or off. By pressing the push button for more than one second the light intensity of the LEDs is dimmed according to the following modalities:

- If the light intensity is not at maximum, by pressing the key there will be an increase of this to maximum or to the corresponding level at the moment the key is released;
- A further pressure on the key inverts the dimming direction to the minimum value or to the corresponding level at the moment the key is released;
- If light intensity is at maximum by pressing the key there will be a decrease to the minimum value or to the corresponding level at the moment the key is released.

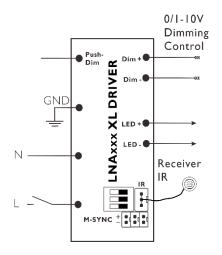
Total length of PUSH cables <20m. Factory dimming setting at 100%.



Note: Only use self-reset push button without indicator light. Risk of short circuit. The self-reset button can only be linked between the Push-dim and the L(AC).

Do Not connect the self-reset button to the N(AC)

IR 0-100% scenes dimming control



LNA series drive with an external infrared receiver, 6 scenes can be easily set up and call a quick scene, but also to be completed by 0-100% stepless infrared wireless dimming control.

Remote Accessories

Name	Model	Article number
Remote Control	DLR613S	530613
Receiver	IR0 I	530614





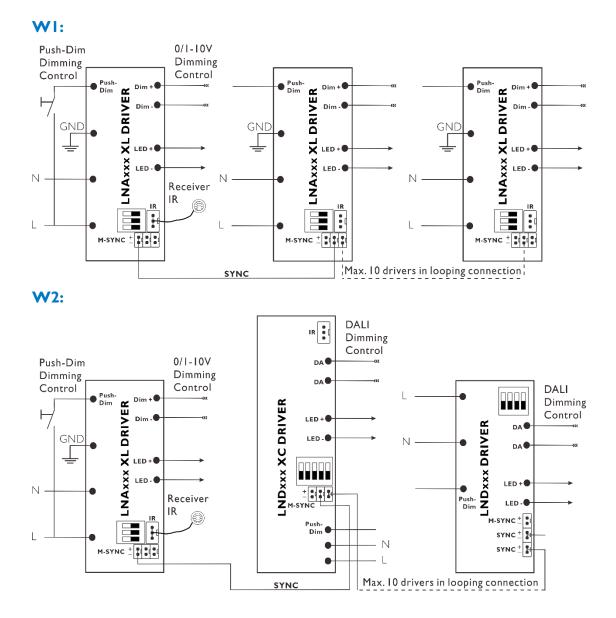
Remote Control DLR613S Receiver IR01

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> Synchronization dimming control



The lights driver by LNX units(slaves) can be dimmed synchronously through a LNX unit(master) directly controlled via IR remote control, 0/1-10V,10V PWM, DALI, Push-dim, On/Off sectional dimming control function.

Wiring diagram as shown on the right. note the following:

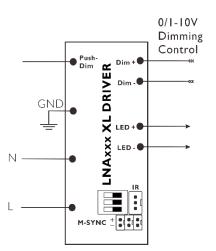
- \diamond According SYNC instructions on wiring housing wiring distinguish SYNC + and -;
- ♦ Max. number of the LNX units, 10(1 master + 9 Slaves);
- Max. cable length between each units,20m(based on a cable with cross-section of 0.15mm2 0.3mm2);
- \diamond Don not connect dimming circuit to slaves.
- ♦ Please make sure all units are set to 100% dimming setting (factory default) before synchronizing.

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0/1-10V interface dimming control \succ



DC 0/I-IOV interface dimming function, output constant current level can be adjusted through output terminal by DC 0/1-10V or 10V PWM signal between dimming control interface + and -.

∻ 0/1-10V dimming function for output current adjustment (Typical)

Dim-control Value	0V	IV	2V	3V	4V	5V
Output Current	0%	10%	20%	30%	40%	50%
Dim-control Value	6V	7V	8V	9V	10V	Open
Output Current	60%	70%	80%	90%	100%	100%

∻ Each 0 / I-IOV LED dimming drivers will consume 0.5mA control terminal of the current.

¹⁰V PWM signal for output current adjustment (Typical): ∻ Frequency range : I KHz - 3KHz

Duty Value	0%	10%	20%	30%	40%	50%
Output Current	0%	10%	20%	30%	40%	50%
Duty Value	60%	70%	80%	90%	100%	100%
Output Current	60%	70%	80%	90%	100%	100%

0/1-10V Interface Lighting Controller



More 0/1-10V Lighting control modules and details, please browse www.easeic.com

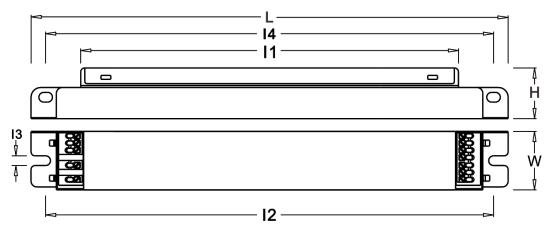
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Mechanical Specifications

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(II)	8.7	222
Mounting Holes(I2)	10.6	270
Mounting Holes(I3)	0.2	5
Mounting Holes(14)	10.6	270
Overall Length	11.0	280

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

MCB	BIO	B16	C10	C16
LNA I 54 BL	9	15	16	26

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



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