18W 3-62V 180-900mA 0/1-10V Dim LNA118 AC

(I-Dim)



SPEC SHEET

SELV RoHS

Features

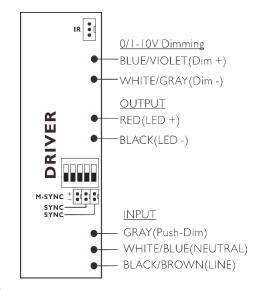
Smart

- Multilevel current output, Constant current output 180-900mA
- 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
- 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
- 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°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.









Design and Quality EASEIC of USA

_ED Driver

LNAI 18 AC Smart E-Dim 0/1-10V DRIVER

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Electrical Specifications

Ordering Information						
Туре	LNAT 18 AC					
Order Code	622118					
Full product name	Smart 18W 3-62V 180-900mA 0/1-10V Dim					
Input Information						
Line Voltage	100-240Vac_rms					
Line Current	0.22A@100VAC 0.18A@120VAC 0.10A@230VAC					
Line Frequency	50/60Hz					
Min, Mains Voltage operational	90[min]					
Max, Mains Voltage operational	265[max]					
THD(total)	<20%					
Power Factor(PF)	>0.92					
Input Power (Max.)	2I.8W					
Efficiency @Max Load and 70°C case	87%@100VAC 87%@120VAC 87%@230VAC					
Inrush Current(Typ.)	Cold Start 55A(twidth=270us measured at 50% Ipeak) at 230VAC					
Leakage Current(Typ.)	<0.5mA/230VAC					
Output Information						
Output Power	18W(See Output current settings table)					
Output voltage	3V to 62V					
Output Constant Current	180-900mA ±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 0.1 uf ceramic capacitor in parallel with 10uf electrolytic capacitor					
	connected at the end of the output connector. Over Current, Over Voltage,					
Protections	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℃ for Life & 85℃ for UL Safety					
Dimming Features						
Dimming Interface	0/1-10V, Push-Dim, On/off Dim, 10K 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	8x67x30mm (LxWxH)					
Packing	0.17Kg(0.37lbs); 30Pcs/5.1kg(11.2Lbs)					

All the specifications are typical and at 25 $\,^{\circ}\!C$ Tcase unless specified otherwise





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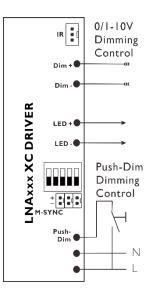
Output Current Settings

LNA118 AC, Constant Current output 180-900mA. Multi-power driver supplied with dip-switch for the selection of the output current. Factory default setting is 180mA.

LNAI 18 AC	2	DIP-Switch Settings					
Pout Max.	Vout DC	lout DC	I	2	3	4	
IIW	3-62V	180mA					
15W	3-62V	250mA	ON				
18W	3-52V	350mA		ON			
18W	3-45V	400mA			ON		
18W	3-40V	450mA				ON	
18W	3-35V	520mA	ON			ON	
18W	3-33V	550mA		ON	ON		
18W	3-30V	600mA		ON		ON	
18W	3-28V	650mA			ON	ON	
18W	3-26V	700mA	ON	ON		ON	
18W	3-22V	820mA		ON	ON	ON	
18W	3-20V	900mA	ON	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 N(AC)

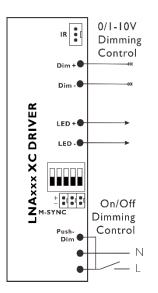
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LNAII8 AC Smart E-Dim 0/1-10V DRIVER

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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.

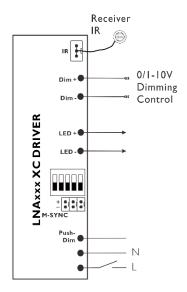
Total length of PUSH cables <20m. Factory dimming setting at 100%.



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.

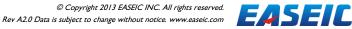
Remote Accessories

Name	Model	Article number
Remote Control	DLR613S	530613
Receiver	IROI	530614



Receiver

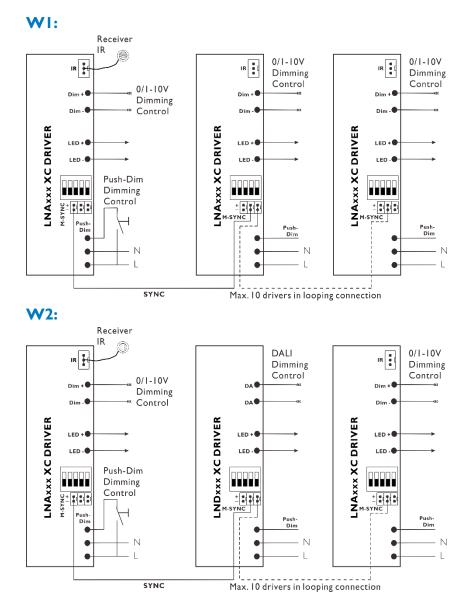
Remote Control DLR613S Receiver IR01





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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:

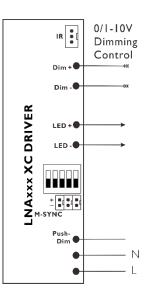
- \diamond According SYNC instructions on wiring housing wiring distinguish SYNC + and -;
- ♦ Max. number of the LNX units, IO(I master + 9 Slaves);
- Max. cable length between each units,20m(based on a cable with cross-section of 0.15mm2 0.3mm2);
- \diamond Don not connect dimming circuit to slaves.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



LNAII8AC Smart E-Dim 0/1-10V DRIVER

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> 0/1-10V interface dimming control



DC 0/1-10V 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 / 1-10V LED dimming drivers will consume 0.5mA control terminal of the current.

IOV PWM signal for output current adjustment (Typical):
Frequency range : IKHz - 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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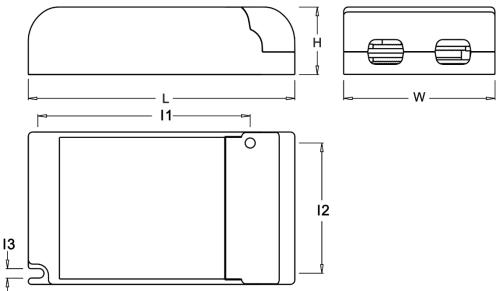




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Mechanical Specifications

Mechanical Drawing:



Dimensions

	ln.	mm
Case Length(L)	4.6	8
Case Width(W)	2.6	67
Case Height(H)	1.2	30
Mounting Holes(II)	3.7	94
Mounting Holes(12)	2.3	58
Mounting Holes(13)	0.19	4.8
Overall Length	4.6	8

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

МСВ	BIO	B16	C10	CI6
LNA118 AC	18	26	28	38

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



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