# 

## 18W 3-66V 200-1050mA 0/1-10V Dim LNAI 18AL 632118

## 

SPEC SHEET

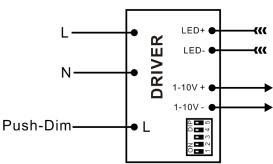
### SELV RoHS

#### **Features**

- Multilevel current output, Constant current output 200-1050mA
- Multi-power driver supplied with dip-switch for the selection of the output current
- Built-in 3 in 1 dimming function(0/1-10V,PWM or Resistance)
- Dimming range from 0 -100%.
- Analogue flicker-free dimming
- PUSH-Dim, dimming and switching via push-button .
- Universal AC input (100~277Vac)
- Designed for LED lighting applications
- 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



#### Note:

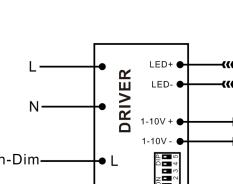
Install in accordance with National and Local Electrical Codes.

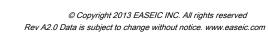
Use 16-24 AWG solid copper wire rated >=300V/85°C.

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.







Wire Diagram

## Smart LED Driver Design and Quality EASEIC of USA



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

## SPEC SHEET

#### **Electrical Specifications**

Tree					
Type Order Code	LNAII8AL				
Full product name	632118 Smart 18WV 3-66V 200-1050mA 0/1-10V Dim				
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Input Information					
Line Voltage	100-240Vac_rms				
Line Current	0.23A@100VAC 0.21A@120VAC 0.11A@230VAC				
Line Frequency	50/60Hz				
Min, Mains Voltage operational	90[min]				
Max, Mains Voltage operational	277[max]				
THD(total)	<10%				
Power Factor(PF)	> <u>0.90@230V</u> full load				
Input Power (Max.)	2IW				
Efficiency @Max Load and 70°C case	87%@100VAC 87%@120VAC 88%@230VAC				
Inrush Current(Typ.)	Cold Start 33A(twidth=270us measured at 50% lpeak) at 230VAC				
Leakage Current(Typ.)	<0.5mA/230VAC				
Output Information					
Output Power	18W(See Output current settings table)				
Output voltage	3V to 66V				
Output Constant Current	200-1050mA ±5%(See Output current settings table)				
Maximum open circuit voltage	<77\				
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				
Dimming Features					
Dimming Interface	0/1-10V, Push-Dim, 10K PWM, Resistance,				
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  $\,$   ${}^{\circ}\!CT$  case unless specified otherwise





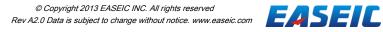
## SPEC SHEET

#### **Output Current Settings**

LNAI18AL, Constant Current output 200-1050mA.

Multi-power driver supplied with dip-switch for the selection of the output current. Factory default setting is 200mA.

LNAI 18AL		DIP-Switch Settings					
Pout Max.	Vout DC	lout DC	I	2	3	4	5
13W	3-66V	200mA					
16W	3-66V	250mA	ON				
18W	3-60V	300mA		ON			
18W	3-51V	350mA	ON	ON			
18W	3-45V	400mA			ON		
18W	3-40V	450mA	ON		ON		
18W	3-36V	500mA		ON	ON		
18W	3-32V	550mA	ON	ON	ON		
18W	3-30V	600mA	ON	ON		ON	
18W	3-27V	650mA			ON	ON	
18W	3-25V	700mA	ON		ON	ON	
18W	3-24V	750mA		ON	ON	ON	
18W	3-22V	800mA	ON	ON	ON	ON	
18W	3-21V	850mA	ON	ON		ON	ON
18W	3-20V	900mA			ON	ON	ON
18W	3-18V	950mA	ON		ON	ON	ON
18W	3-18V	1000mA		ON	ON	ON	ON
18W	3-17V	1050mA	ON	ON	ON	ON	ON



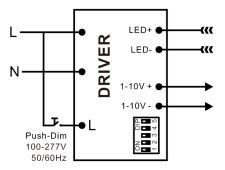


## LNAI 18AL Smart E-Dim 0/1-10V DRIVER

## SPEC SHEET

#### **Dimming Control Wiring Diagrams**

#### $\succ$ 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).

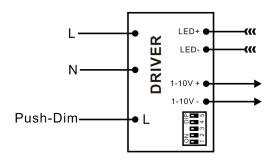
Do Not connect the self-reset button to the N(AC)



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

## SPEC SHEET

#### 0/1-10V interface dimming control $\succ$



DC 0/I-I0V 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)

♦ D	Dim-control Value	0V	IV	2V	3V	4V	5V
С	Metput Current	0%	10%	20%	30%	40%	50%
D	)im-control Value	6V	7V	8V	9V	10V	Open
С	h Dutput Current	60%	70%	80%	90%	100%	100%

0

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

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

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

#### I-10V Interface Lighting Controller



EID I I OEA





DRF02E

DRF01E





DRF02U



DRF CCTU

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

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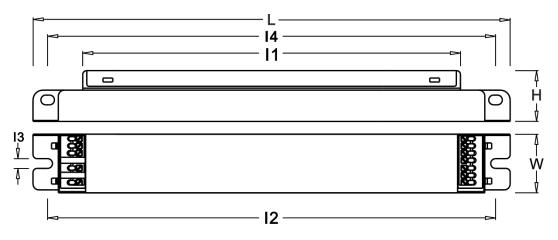




## SPEC SHEET

#### **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(I4)	10.6	270
Overall Length	11.0	280

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

МСВ	B10	B16	C10	C16
LNA118AL	10	16	17	28

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



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