54W |

Smart LED Driver Design and Quality EASEIC of USA

LND 54 BC Smart E-Dim DALI DRIVER

SPEC SHEET

54W 12-42V 1050-1750mA DALI Dim LND154 BC 683154





SELV RoHS

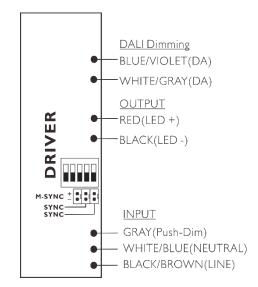
Features

- Multilevel current output, Constant current output 1050-1750mA
- Multi-power driver supplied with dip-switch for the selection of the output current
- DALI digital dimming control interface, compatible with standard (IEC 62386) DALI interfaces.
- Memory function for sets or light groups. Recall of stored functions.
- Dimming range from 0 -100%.
- SYNC, On/Off, 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:

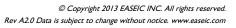
Install in accordance with National and Local Electrical Codes.

Use 16-24 AWG solid copper wire rated >=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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Electrical Specifications

Ordering Information						
Туре	LND154 BC					
Order Code	683154					
Full product name	Smart 54W 12-42V 1050-1750mA DALI 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	>0.95				
Input Power (Max.)	64.6W					
Efficiency @Max Load and 70°C case	87%@100VAC	87%@120VAC	88%@230VAC			
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 cu	12-54W(See Output current settings table)				
Output voltage	12V to 42V					
Output Constant Current	1050-1750mA ±5%(See	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 0.1 uf 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	DALI(IEC62386), Push-E	Dim, On/off Dim, SYNC				
DALI Dimming Specifications	Sink Current <2mA					
Dimming range	0-100%	0-100%				
Environment & Approbation						
Environmental Protection Rating	UL damp and dry	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	II8x67x30mm (LxWx⊦	ł)				
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

LND154 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.

LND154 BC	:	DIP-Switch Settings				
Pout Max.	Vout DC	lout DC	I	2	3	4
44W	12-42V	1050mA				
51W	12-42V	1200mA	ON			
54W	12-42V	1300mA		ON		
54W	12-39V	1400mA			ON	
54W	2-35V	1550mA				ON
54W	12-34V	1600mA		ON	ON	
54W	2-3 V	1750mA		ON		ON
Constant Voltage						
15W	2V(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

МСВ	BIO	B16	C10	C16
LND154 BC	9	15	16	26

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

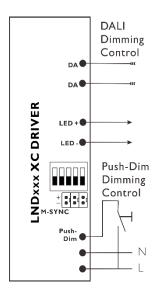


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Dimming Control Wiring Diagrams

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.

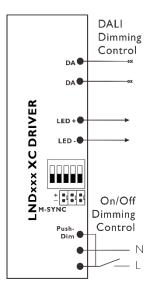
Total length of PUSH cables <20m. Factory dimming setting at 100%.



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)

Note: Only use self-reset push button without indicator light.

> 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)

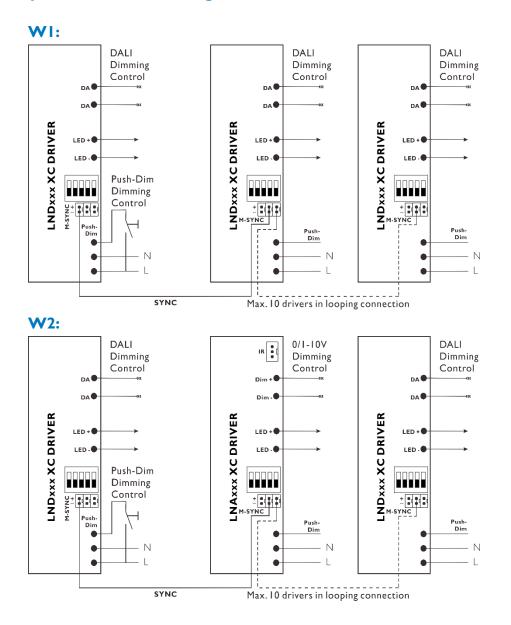
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> Synchronization dimming control



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.

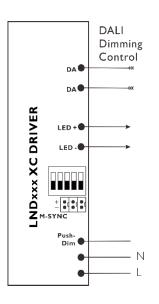
- Wiring diagram as shown on the right. note the following:
- According SYNC instructions on wiring housing wiring distinguish SYNC + and -;
- ♦ Max. number of the LNX units, IO(I master + 9 Slaves);
- Max. cable length between each units,20m(based on a cable with cross-section of 0.15mm2 0.3mm2);
- ♦ 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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DALI interface dimming control



LND series of LED dimming driver, in line with DALI protocol specification IEC62386, acceptable compliance with ON / OFF, scenes and dimming DALI controller instruction norms issued.

Each DALI subnets can only have a maximum of 64 DALI slave devices (DALI LED dimming drivers).

Each DALI LED dimming drivers will consume 2mA control terminal of the current.

DALI connections of up to 300 m can be made with any 2 wire 0.5 - 1.5 mm2 mains rated cable.

DALI cable must be mains-rated and the maximum voltage drop along the length of the cable must not exceed 2V.

In rare instances where the environment may be electrically noisy, due to adjacent circuits carrying high switching currents, we recommend a 2 wire twisted pair screened and sheathed cable.

DALI Interface Lighting Controller



More DALI Lighting control modules and details , please browse www.easeic.com

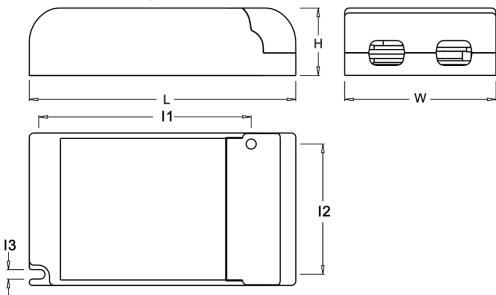




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Mechanical Specifications

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(I3)	0.19	4.8
Overall Length	4.6	118



Easeic Inc.

27 Hall Street, Brooklyn, NY 11205 Tel.: 1-718-243-9388 Fax: 1-718-243-9403 Customer Support Customer Care:1-646-4029788 E-Mail: ny@easeic.com

Easeic Asia Limited.

Rm. 19C, Lockhart Ctr., 301- 307 Lockhart Rd., Wan Chai, Hong Kong Tel.: 852-6955-8075 Fax: 852-6915-3639 E-Mail: info@easeic.com

Easeic Sci-tech Co., ltd.

Building 6,Huangzhou Industrial Zone, Chebei Road, Tianhe District, Guangzhou, China, 510660 Tel.: 86-20-8230-9676 Fax: 86-20-8230-9677 E-Mail: sales@easeic.com