

EASEL THE MERCENTER



SPEC SHEET

80W 20-54V 1050-1750mA DALI Dim LND180 AL 673180



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%.
- Flickering less
- PUSH-Dim, dimming and switching via push-button with memory function.
- AC input (176~264Vac)
- Lower standby power 0.5W
- High PF>0.9, THD<10%
- Compact form factor, Fully isolated metal case.
- 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



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Ordering Information				
Туре	LND 180 AL			
Order Code	673180			
Full product name	Smart 80W 20-54V 1050-1750mA DALI Dim			
Input Information				
Line Voltage	220-240Vac rms			
Line Current	0.41A MAX			
Line Frequency	47/63Hz			
Min, Mains Voltage operational	176[min]			
Max, Mains Voltage operational	264[max]			
THD(total)	<10%			
Power Factor(PF)	>0.99			
Input Power (Max.)	80W			
Efficiency @Max Load and 70°C case	92%-87%			
Inrush Current(Typ.)	Cold Start 30A(twidth=270us measured at 50% lpeak) at 230VAC			
Leakage Current(Typ.)	Cold Start SOA(LWidth-2700s measured at S0% ipeak) at 250VAC <0.75mA/230VAC			
Output Information	10.73hi (2200/C			
Output Power	56.7-80.5W(See Output current settings table)			
Output voltage	20V to 54V			
Output Constant Current	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 0.1uf 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°C for Life & 85°C for UL Safety			
Dimming Features	· · ·			
Dimming Interface	DALI(IEC62386), Push-Dim			
DALI Dimming Specifications	Sink Current <2mA			
Dimming range	0-100%			
Environment & Approbation				
Environmental Protection Rating	LIL damp and dry			
Agency Approbations	UL damp and dry UL8750,UL1310, CSA-C22.2 No.250.0-08,ENEC EN61347-1,EN61347-2-1 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 industri level(surge 2KV), criteria A			
Audible noise	<24dB Class A			
Other information				
Dimension	358x30x21mm (LxWxH)			
Packing	0.41Kg(0.51lbs); 30pcs/12.3Kg/512*338*250mm			

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



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Output Current Settings

LND180 AL, Constant Current output 1050-1750mA. Multi-power driver supplied with dip-switch for the selection of the output current. Factory default setting is 1050mA.

LND 180 AL	-	DIP-Switch Settings						
Pout Max.	Vout DC	lout DC	I	2	3	4	5	6
56.7W	20-54V	1050mA	ON	ON	ON	ON	ON	ON
59.4W	20-54V	I I 00mA	ON	ON	ON		ON	ON
62.1W	20-54V	I I 50mA	ON	ON	ON	ON		ON
64.8W	20-54V	1200mA	ON	ON	ON			ON
67.5W	20-54V	1250mA	ON	ON	ON	ON	ON	
70.2W	20-54V	1300mA	ON	ON	ON		ON	
72.9W	20-54V	1350mA	ON	ON	ON	ON		
75.6W	20-54V	1400mA	ON	ON	ON			
78.3W	20-54V	1450mA		ON	ON			
81W	20-54V	1500mA	ON		ON			
80.6W	20-52V	1550mA			ON			
80W	20-50V	1600mA	ON	ON				
80W	20-48.5V	1650mA		ON				
79.9W	12-47V	1700mA	ON					
80.5W	12-46V	1750mA						

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

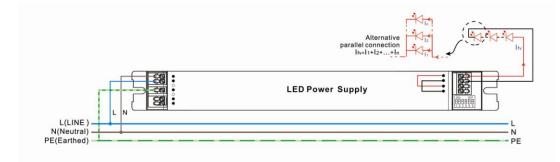
МСВ	B10	B16	C10	C16
LND180 AL	9	15	16	26

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



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Dimming Control Wiring Diagrams



Note:

Install in accordance with National and Local Electrical Codes.

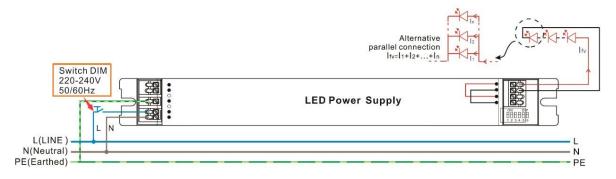
Use 16-24 AWG solid copper wire rated >=300V/85°C.

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.

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.

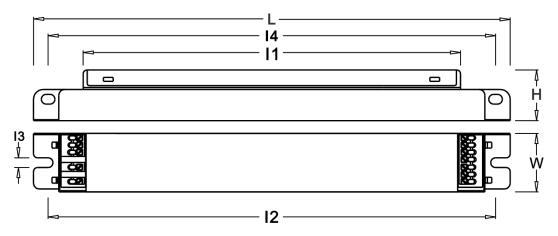
Total length of PUSH cables <20m. Factory dimming setting at 100%.

LND180 AL Smart E-Dim DALI DRIVER

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Mechanical Specifications

Mechanical Drawing:



Dimensions

	In.	mm		
Case Length(L)	114.2	360		
Case Width(W)	1.2	30		
Case Height(H)	0.8	21		
Mounting Holes(II)	11.5	292		
Mounting Holes(I2)	13.8	350		
Mounting Holes(I3)	0.2	4.1		
Mounting Holes(I4)	13.8	350		
Overall Length	114.2	360		