

PE-N30DA 30W

PE-N20DA 45W



**6**  
six in one dimming

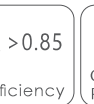
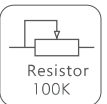
**Features:**

- Integrated DALI/Push/0-10V/1-10V/PWM/R DIM standard dimming interface
- DAL2 certification, DALI member
- Digital control output, flicker free
- International general AC input 100-250V rang
- Protection type: short circuit / over current / over voltage
- Natural air cooling, moisture-proof, Thermal silicone heat dissipation process
- Suitable for LED home and business intelligent lighting applications
- Output fast pressure terminal, safe and convenient
- Comply with world lighting safety code
- Protection class II
- 5-year warranty

5 years



**RoHS SELV CE Class 2**



**General description:**

DALI Dimming LED Driver is one of the constant current dimming LED driver developed by my company with high power factor, high efficiency, high precision, the use of the efficient stable low loss switch control chip and the high performance components makes it with low noise, long life and other characteristics.

PE-N30DA/PE-N45DA have DALI/Push/0-10V/ 1-10V/PWM/R DIM six dimming ways ,Dali is the main default, 6 kinds of dimming mode switching, no interference with each other

Dimming interface: 1. DALI dimming, use standard DALI signal interface. can match with all DALI control system in the marker.

DALI full name: Digital Addressable Lighting Interface

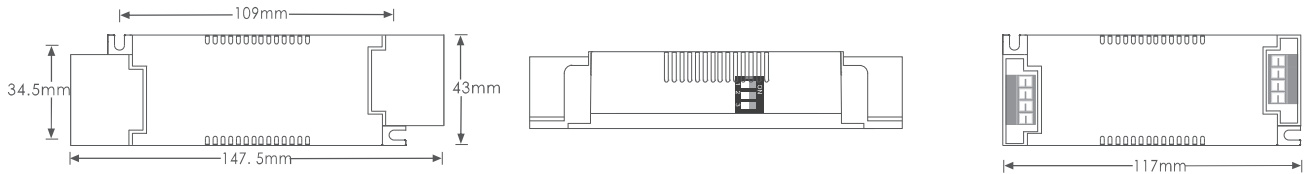
2. 0-10V dimming ,use the standard 0-10V /100K resistance/10V PWM dimming.

3. Push dimming mode is shared with Dali interface, and one of them can be selected .

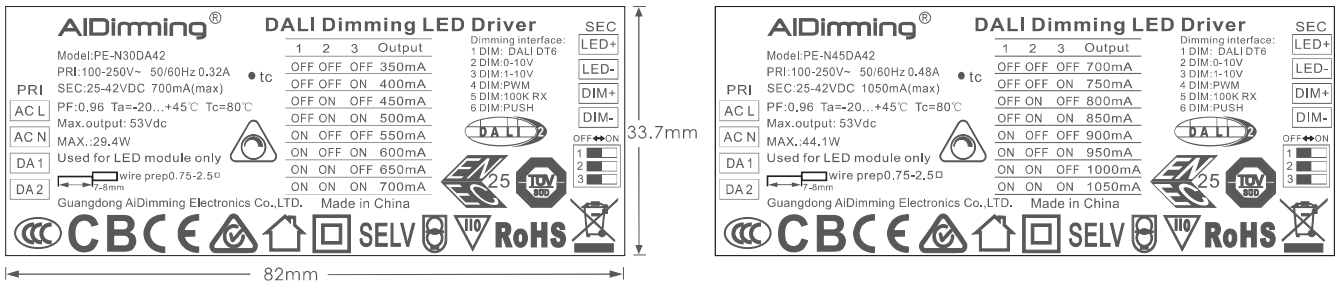
**Specification:**

Model		PE-N30DA42	PE-N45DA42	
OUTPUT	Output Voltage	9-42Vdc	9-42Vdc	
	Max Output Voltage	42Vdc	42Vdc	
	Non-load Output Voltage	55Vdc	55Vdc	
	Output Current	350/400/450/500/550/600/650/700mA	700/750/800/850/900/950/1000/1050mA	
	Output Power	3.1W~29.4W	6.3W~44.1W	
	Strobe Level	No Flicker		
	Dimming Range	0~100%, LEDstart at 0.03% possible.		
	PWM Dimming Frequency	>3600Hz		
	Current Accuracy	±3%		
Ripple & Noise	Power down memory function			
INPUT	Dimming Interface	DALI (IEC62386), Push /0-10V/1-10V/PWM/100KR DIM Signal control current < 0.1mA		
	Input Voltage Range	100-250Vac		
	Frequency	50/60Hz		
	Input Current	<0.32A ac110v	<0.48A ac110v	
	Power Factor	PF>0.99/100Vac, at full load	PF>0.99/100Vac, at full load	
	THD	230Vac@THD ≤10% (full load)		
	Efficiency(typ.)	85.5%	87%	
	Inrush Current(typ.)	Cold start 20A@230Vac		Cold start 20A@230Vac
	Anti Surge	L-N: 2kV		
Leakage Current	<0.25mA/230Vac ac( 50% Ipeak test twidth=58.4us )			
ENVIRONMENT	Working Temperature	ta: 45°C tc: 80°C		
	Working Humidity	20 ~ 95%RH, non-condensing		
	Storage Temp., Humidity	-40 ~ 80°C, 10~95%RH		
	Temp. Coefficient	±0.03%/°C (0-50) °C		
	Vibration	10~500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes.		
PROTECTION	Over-heat Protection	Intelligently adjusting or turning off the output current if the PCB temperature ≥110°C, , auto recovers.		
	Over Load Protection	Shut down the output when rated power ≥102%, auto recovers.		
	Short Circuit Protection	Shut down automatically if short circuit occurs, auto recovers.		
	Non-load Protection	output Constant Voltage.		
SAFETY & EMC	Withstand Voltage	I/P-O/P: 3750Vac		
	Isolation Resistance	I/P-O/P: 100M Ω /500VDC/25°C/70%RH		
	Safety Standards	IEC/EN61347-1, IEC/EN61347-2-13		
	EMC Emission	EN55015, EN61000-3-2 Class C, IEC61000-3-3		
	EMC Immunity	EN61000-4-2,3,4,5,6,8,11, EN61547		
Strobe Test Standard	IEEE 1789			
OTHERS	Dimension	147.5(117)×43×30mm(L×W×H)		
	Packing	PE plastic bag packing		
	Weight(G.W.)	187g/245g±10g		

Dimensions :



Product Label:



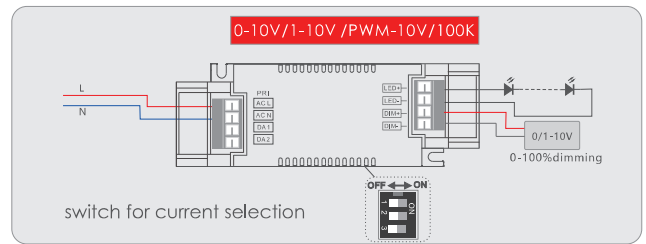
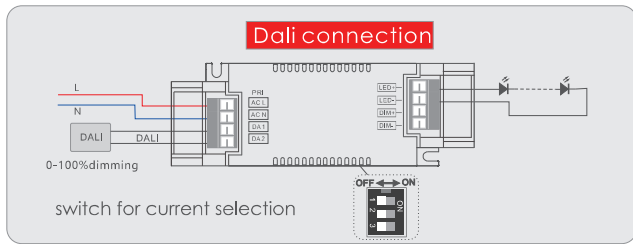
LED Current Selection:

DIP switch for 8 optional currents' quick selection( see the table below ).

Model	DIP switch									
PE-N30DA42	output current	350mA	400mA	450mA	500mA	550mA	600mA	650mA	700mA	
	output voltage	9-42V	9-42V	9-42V	9-42V	9-42V	9-42V	9-42V	9-42V	
	output power	3.1W-14.7W	3.6W-16.8W	4W-18.9W	4.5W-21W	4.9W-23.1W	5.4W-25.2W	5.8W-27.3W	6.3W-29.4W	
PE-N45DA42	output current	700mA	750mA	800mA	850mA	900mA	950mA	1000mA	1050mA	
	output voltage	9-42V	9-42V	9-42V	9-42V	9-42V	9-42V	9-42V	9-42V	
	output power	6.3W-29.4W	6.7W-31.5W	7.2W-33.6W	7.6W-35.7W	8.1W-137.8W	8.5W-40W	9W-42W	9.5W-44.1W	

- \* After current setting by DIP switch, power off and then power on to make the new current effective.
- \* E.g. LED 3.2V/pcs: 9-24V can power 3-7pcs LEDs in series, 9-42V can power 3-12pcs LEDs, the max quantity of LEDs in series will be subject to the actual voltage of LED.

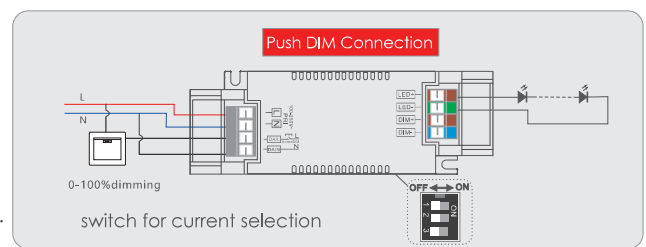
Connection:



Push Dimming:



On/off control: Short press.  
 Stepless dimming: Long press.  
 With every other long press, the light level goes to the opposite direction.  
 Dimming memory: Brightness will be the same as previously adjusted when turning off and on again.



Wiring:

- ※ 1.DALI interface Dali is a digital addressable lighting interface, which is directly connected with Dali control system, and the signal line is not divided into positive and negative poles.
- ※ 2.PUSH interface: AC voltage is connected to Dali two ports through a switch with automatic reset to realize key dimming. Single press switch function, long press dimming.
- ※ 3.0-10V interface: 0-10V dimmer interface, 100k resistance dimmer without positive and negative, 0 / 1-10V dimmer with positive and negative
- ※ 4.Do not connect voltage higher than 10V at 0-10V interface
- ※ 5.The input terminal: wire gauge 22AWG-14AWG (0.5mm<sup>2</sup> - 1.5mm<sup>2</sup>)wire stripping requirement:9-10mm
- ※ 6.The output terminal: wire gauge 22AWG-12AWG (0.5mm<sup>2</sup> - 1.5mm<sup>2</sup>)wire stripping requirement :6-7mm.

Relationship Diagrams:

