

# POWER SOURCE



**5 YEAR  
WARRANTY**

## **10W** **Phase Cut AC** **Dimmable** **Constant** **Current** **LED Driver** With Selectable Output

### Features of the: PDC-10

-  High Level Of Dimmer Compatibility
-  Output Current Selectable By DIP switch
-  AC Input Range: 200-240VAC with PFC
-  IP20 Design For Indoor Installation
-  Class II Power Supply
-  Easy Installation
-  Protections: Short Circuit Overload Over Temperature
-  Works With Leading Or Trailing Edge Dimmers



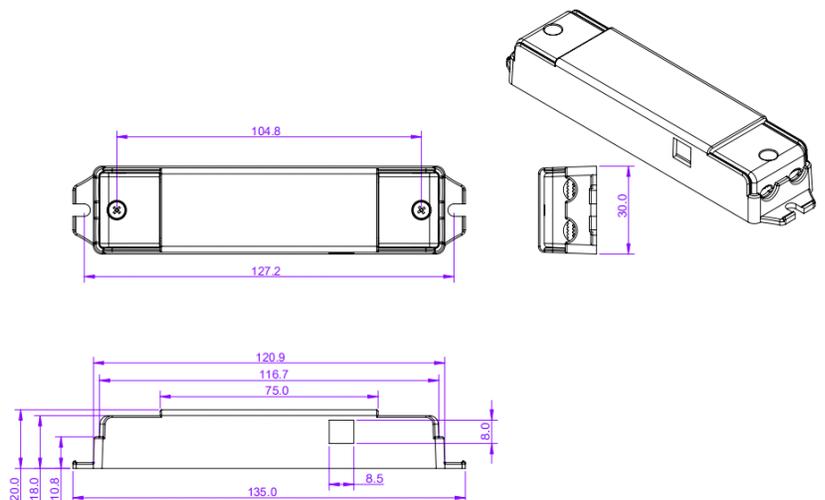
Australian Approvals

CE    IP20 SELV

Model		PDC-10							
Output	Rated Current (mA)	100mA	150mA	200mA	250mA	300mA	350mA	400mA	450mA
	☐ ON ☑ OFF	☐☐☐	☐☐☐	☐☐☐	☐☐☐	☐☐☐	☐☐☐	☐☐☐	☐☐☐
	Current Tolerance	±25mA							
	DC Voltage	3-42V	3-42V	3-42V	3-40V	3-33V	3-28V	3-25V	3-22V
	Rated Power	4.2W	6.3W	8.4W	10W	10W	10W	10W	10W
Input	Rated Input Voltage	200-240VAC							
	Rated Frequency	47-63HZ							
	Power Factor	Full loading ≥ 0.9@230VAC							
	Efficiency (Typ.)	Full loading ≥ 75%@230VAC							
	AC Current (Max.)	0.1A							
	Inrush Current (Typ.)	11A, 2us @ 50%Ipeak at 230VAC							
	Leakage Current	<0.50mA							
Protection	Short Circuit	Constant current mode, recovers automatically after fault condition is removed.							
	Output No-Load Voltage	52V max.							
	Over Temperature	Ambient temp. over 50±5°C, output current will be reduced to 50%; Ambient temp. over 60±5°C, output will be off; recovers automatically after temp. drops – measured as case temperature tc=75±5°C,							
	Protection Class	II							
Environment	Working TEMP.	-40-+60°C							
	Working Humidity	20-90%RH, non condensing							
	Storage Temp. Humidity	-40 - *80°C, 10-95%RH							
	Safety Standards	EN61347-1 EN61347-2-13							
Safety	Withstand Voltage	I/P-O/P:3.75KVAC							
	Isolation Resistance	I/P-O/P:100MΩ/500VDC/25°C/70%RH							
	Weight	0.1kg							
Others	Size	127.2*30*20mm (L*W*H)							
	Packing	320*280*215mm (50PCS/CTN ) for outer carton 6.52KG/CTN							
	Notes	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Tolerance: includes set up tolerance, line regulation and load regulation. 3. Specifications are subject to change without prior notice. Contact your supplier to confirm any critical parameters.							

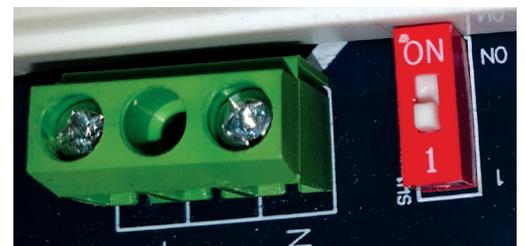
## Mechanical Specification

- Input 3 pole terminal block: Active AC (L), Neutral AC(N).
- Output 2 pole terminal block: Positive (LED+), Negative (LED-).
- Suggested wire diameter: Input 0.75-2mm<sup>2</sup>; Output: 0.5-2mm<sup>2</sup>.
- Ensure that all wiring is correct before testing in order to avoid damage to the LED driver or the LEDs.

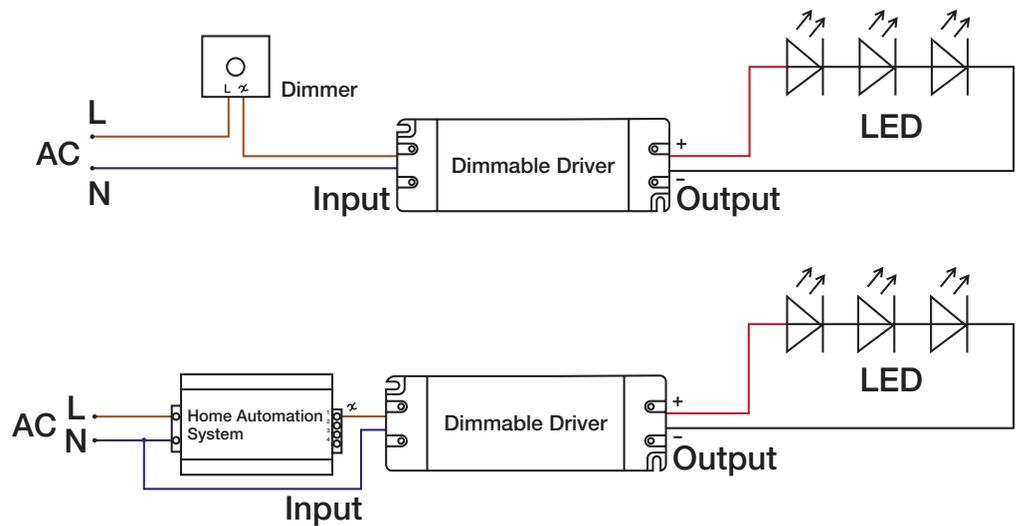


## Dimmer Type Selection

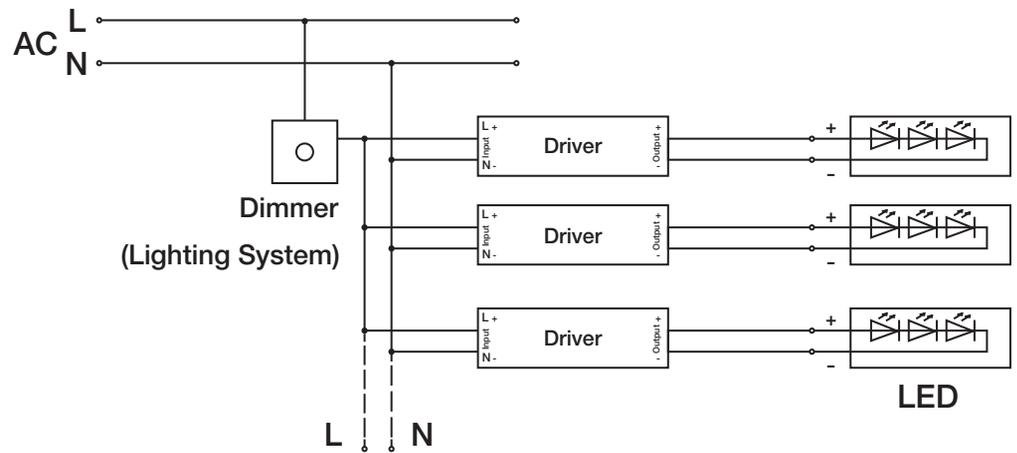
- A leading edge or trailing edge dimmer should be installed on the AC input.
- Select the type of dimmer being used with the DIP switch to the right of the input terminal block. Position 1 for trailing edge, most common in Australia. If flicker is experienced try the ON position.
- It is recommended that you use a dimmer with at least 2x power of the rated output power of the driver.



## Wiring Diagram: Single Driver

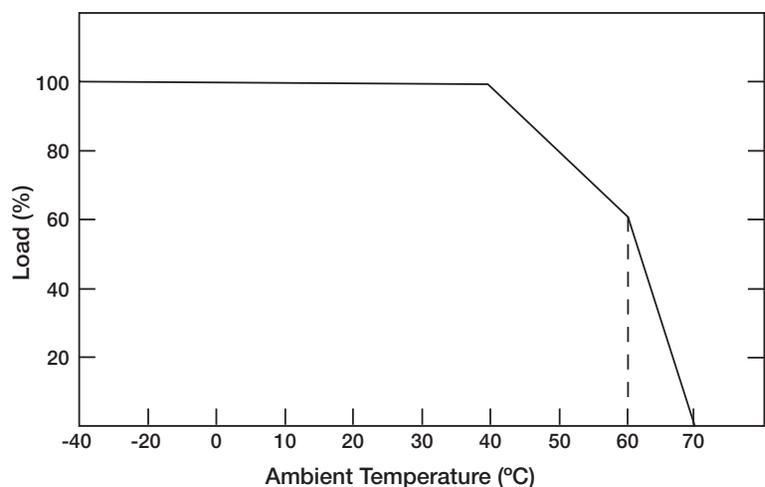


## Wiring Diagram: Multiple Drivers



## De-rating Curve

- If being used in higher ambient temperatures, ensure the load on the LED driver is de-rated in accordance with this chart. Failure to do so could lead to a premature failure, which is not covered by the warranty.



To extend their life, please refer to the De-rating Curve and de-rate according to the temperature.

## Instruction:

- 1) This driver should be installed by qualified and professional person;
- 2) Please make sure the driver is installed with adequate ventilation around it to allow for heat dissipation.
- 3) Ensure that wiring is correct before test in order to avoid LED and power supply damage.

Any other question please feel free to contact ADM Systems Pty Ltd.