POWER SOURCE

5 YEAR WARRANTY

20W Phase Cut AC Dimmable Constant Current LED Driver

With Selectable Output

Features of the: PDC-20

- 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

Specification

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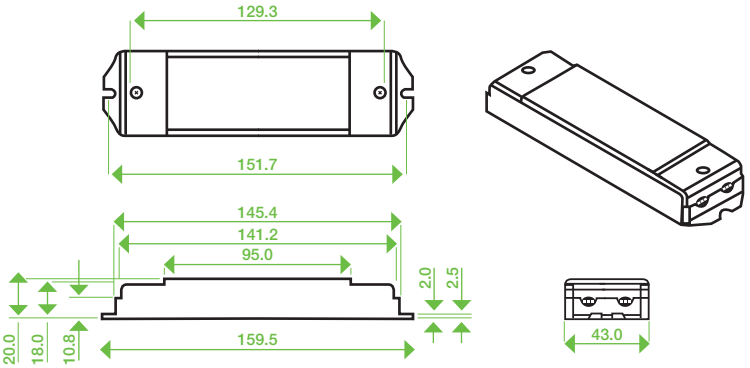
Model		PDC-20							
Output	Rated Current (mA)	250mA	350mA	400mA	450mA	500mA	550mA	600mA	700mA
	▼ ON ▲ OFF	▲▲▲	▼▲▲	▲▼▲	▲▲▼	▼▼▲	▼▲▼	▲▼▼	▼▼▼
	Current Tolerance	±5%							
	DC Voltage	3-42V	3-42V	3-42V	3-42V	3-40V	3-36V	3-33V	3-29V
	Rated Power	10.5W	14.7W	16.8W	18.9W	18.9W	19.8W	19.8W	20.3W
Input	Rated Input Voltage	200-240VAC							
	Rated Frequency	47-63HZ							
	Power Factor	Full loading ≥ 0.9@230VAC							
	Efficiency (Typ.)	Full loading ≥ 78%@230VAC							
	AC Current (Max.)	0.15A							
	Inrush Current (Typ.)	2.96A, 7.6us @ 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	Safety Standards	EN61347-1 EN61347-2-13							
	Withstand Voltage	I/P-O/P:3.75KVAC							
	Isolation Resistance	I/P-O/P:100MΩ/500VDC/25°C/70%RH							
Others	Weight	0.115kg							
	Size	151.7*43*20mm (L*W*H)							
	Packing	340*250*135mm (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.								

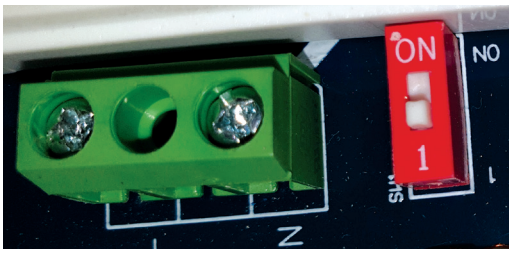
Mechanical Specification

- 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^2; Output: 0.5-2mm^2.
- 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.



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Wiring Diagrams

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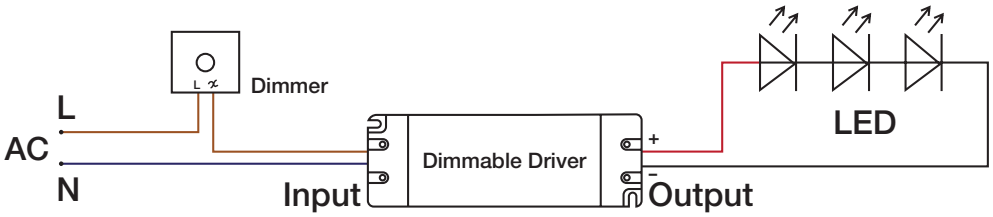
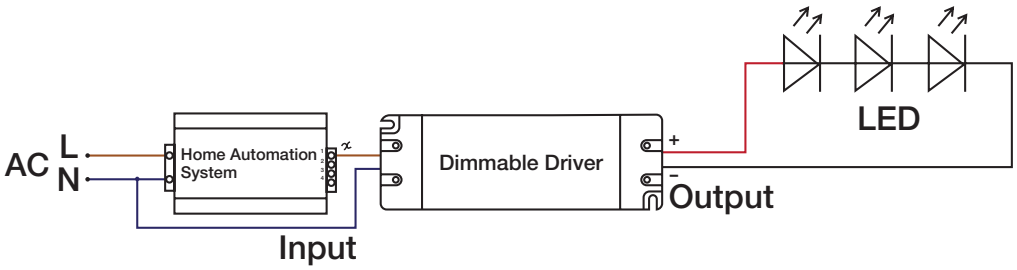
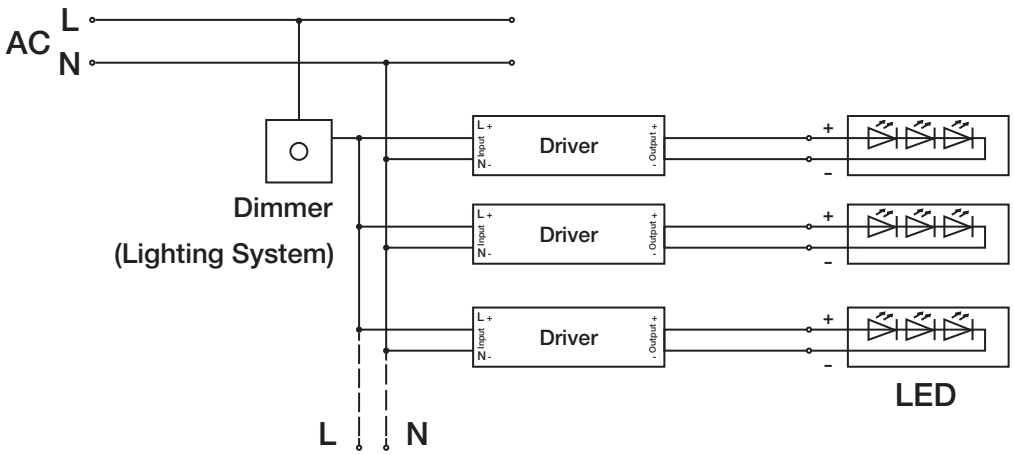
Wiring Diagram: Single Driver



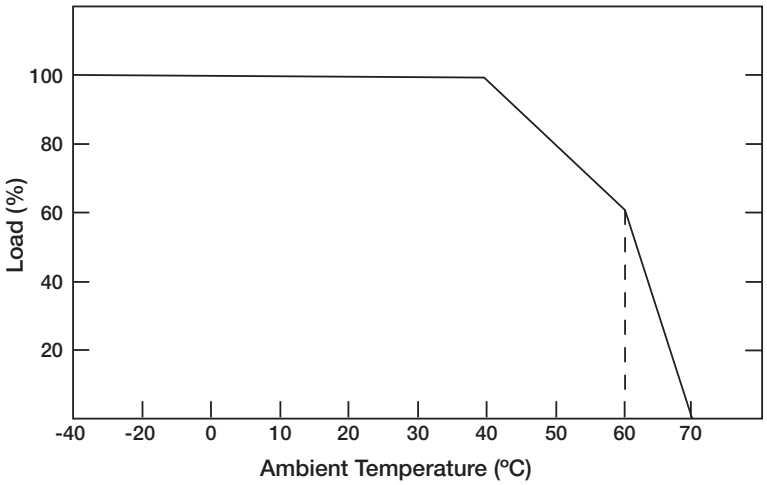


Wiring Diagram: Multiple Drivers



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.

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