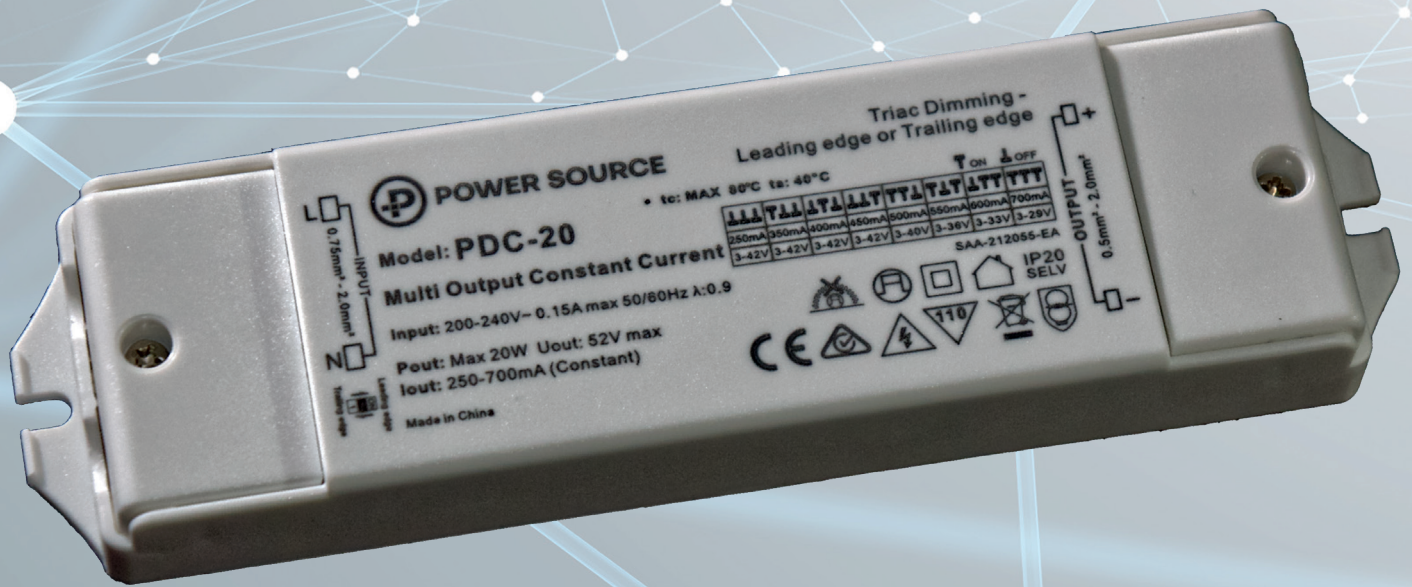


# POWER SOURCE



**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



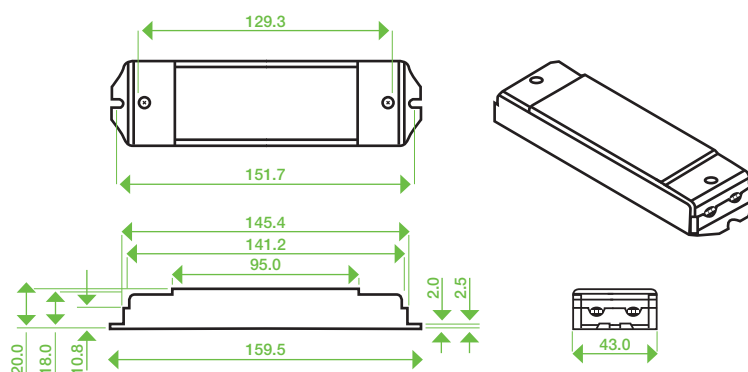
Australian  
Approvals

CE    IP20 SELV

Model		PDC-20							
Output	Rated Current (mA)	250mA	350mA	400mA	450mA	500mA	550mA	600mA	700mA
	<b>T</b> ON <b>L</b> OFF	<b>LLL</b>	<b>TLL</b>	<b>LTL</b>	<b>LLT</b>	<b>TTL</b>	<b>TLT</b>	<b>LTT</b>	<b>TTT</b>
	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%I <sub>peak</sub> 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	<ol style="list-style-type: none"> <li>All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</li> <li>Tolerance: includes set up tolerance, line regulation and load regulation.</li> <li>Specifications are subject to change without prior notice. Contact your supplier to confirm any critical parameters.</li> </ol>								

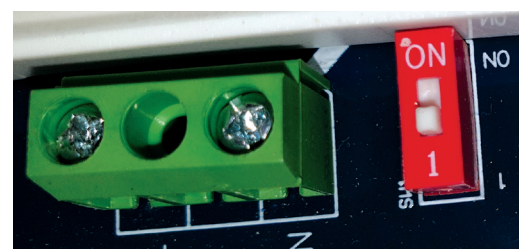
## Mechanical Specification

- 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.

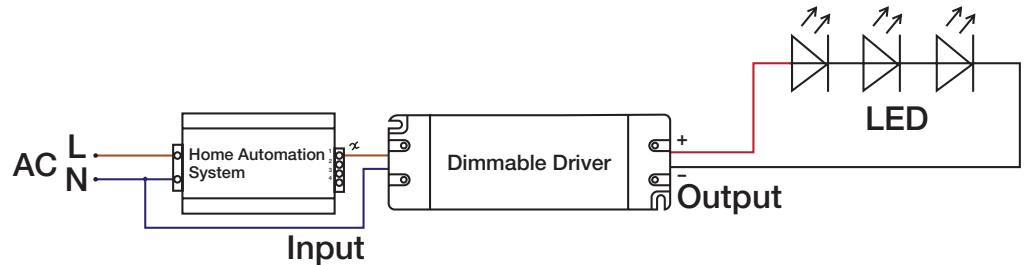
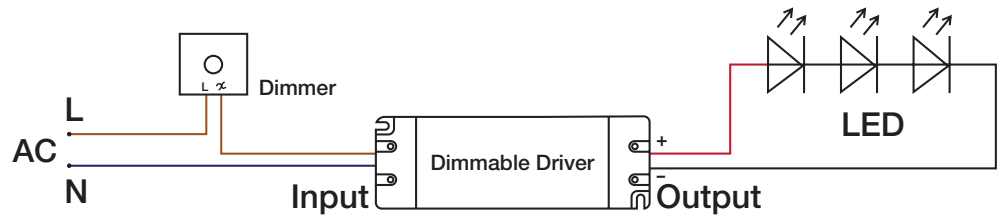


## Dimmer Type Selection

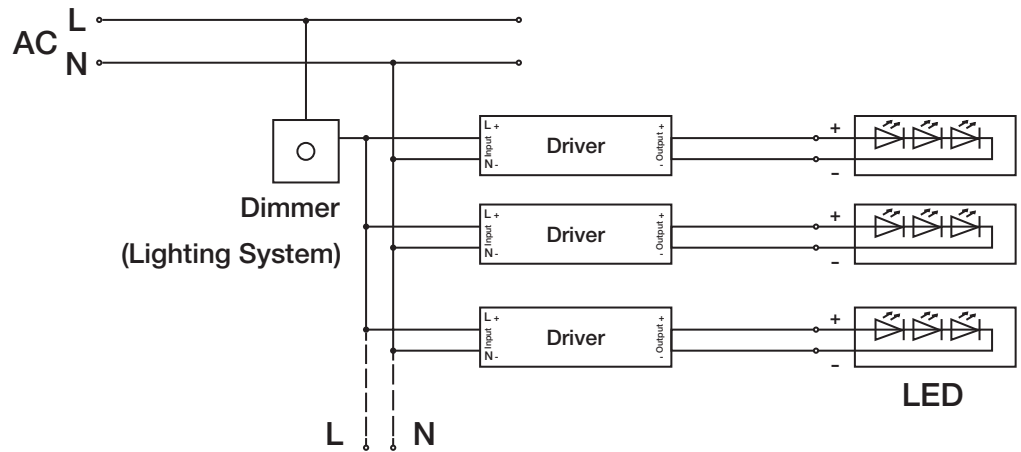
- A leading edge or trailing edge dimmer should be installed on the AC input.
- Select the type of dimmer being used with the DIP switch to the right of the input terminal block. Position 1 for trailing edge, most common in Australia. If flicker is experienced try the ON position.
- It is recommended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



## Wiring Diagram: Single Driver

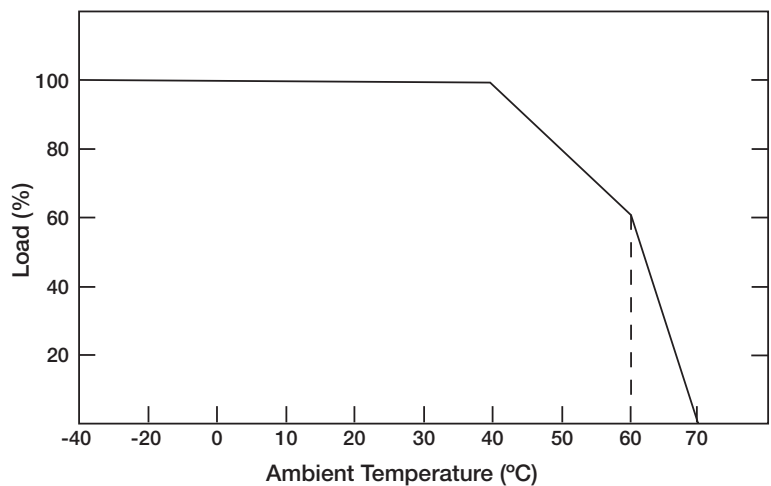


## Wiring Diagram: Multiple Drivers



## 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:

- This driver should be installed by qualified and professional person;
- Please make sure the driver is installed with adequate ventilation around it to allow for heat dissipation.
- 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.