



**5 YEAR  
WARRANTY**

**320W**  
**Phase Cut  
Dimmable  
LED Driver  
with PWM  
Output**

**Features of the:  
PDM-320 Series**

-  **Constant Voltage PWM Output**
-  **AC Input Range: 200-240VAC with PFC**
-  **Protections:**  
• Short Circuit  
• Over Load  
• Over Temperature
-  **Class I Power Supply**
-  **IP66 Design For Outdoor Installation**
-  **Cooling by Free Air Convection**
-  **Factory Fitted Flex and Plug**
-  **Compatible with Most Leading and Trailing Edge Dimmers**



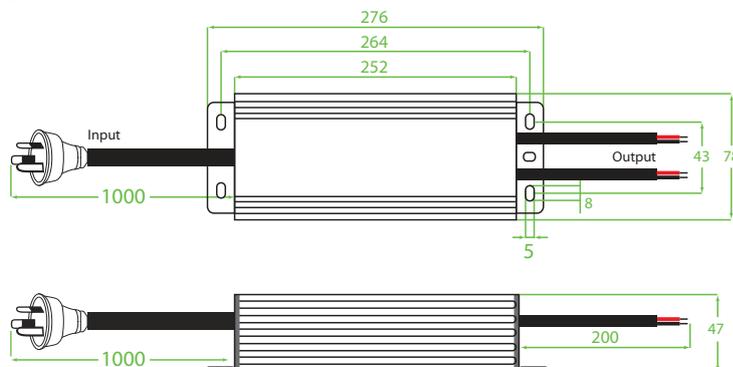
CE    IP66 SELV

| Model        |  | PDV-320-12   |
|--------------|--|--|
| Output       | DC voltage                                 | 12V  |
|              | Output frequency                           | 20kHz  |
|              | Voltage tolerance                          | ±0.5V (see Note 2.)  |
|              | Rated current                              | 26.6A  |
|              | Rated power                                | 320W   |
| Input        | Voltage range                              | 200-240VAC   |
|              | Frequency range                            | 47~63HZ  |
|              | Power factor                               | PF ≥ 0.97/200VAC PF ≥ 0.97/230VAC PF ≥ 0.97/240VAC (Full loading)  |
|              | Full load efficiency (Typ.)                | 89%  |
|              | AC current (Max.)                          | 2.2A   |
|              | Leakage current                            | <0.50mA  |
|              | Inrush current                             | Cold Start 102A (twidth = 390us measured at 50% Ipeak) at 230 VAC  |
|              | MAX. No. of drivers on 16A Circuit breaker | 1 units (circuit breaker of type B) / 2 units (circuit breaker of type C) at 230VAC  |
| Protection   | Short circuit                              | Hiccup mode, re-power on to recover after fault condition removed  |
|              | Over loading (Note 4.)                     | ≤120% Hiccup mode, recovers automatically after fault condition is removed   |
|              | Over temperature                           | ≤100°C± 10°C shut down o/p voltage, automatically recover after the temperature drops.   |
| Environment  | Working TEMP.                              | -40~+60°C (refer to de-rating curve)   |
|              | Working humidity                           | 20~95%RH, non-condensing   |
|              | Storage TEMP, humidity                     | -40~+80°C, 10-95%RH non-condensing   |
|              | TEMP. coefficient                          | ±0.03%/°C (0~50°C)   |
|              | Vibration                                  | 10-500Hz, 5G 12min./1 cycle, period for 72min, each along X, Y, Z axes   |
| Safety & EMC | Safety standards                           | EN61347-1 EN61347-2-13   |
|              | Withstand voltage                          | I/P-O/P:3.75KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC   |
|              | Isolation resistance                       | I/P-O/P I/P-FG O/P-FG:100MΩ/500VDC/25°C/70%RH  |
|              | EMC emissions (Note 3.)                    | EN55015, EN61000-3-2, EN61000-3-3 & AS CISPR 15:2017 CISPR 16-2-3  |
| Others       | EMC immunity                               | EN61000-4-2,3,4,5,6 , 11, EN61547  |
|              | Net. weight                                | 1.65kg   |
|              | Size                                       | 276*78*47mm(L*W*H)   |
| Packing      |  | 390*310*185 10PCS /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>The LED driver is considered as a component that is operated in conjunction with final equipment. EMC performance could be affected by the complete installation. Original equipment manufacturers may need to conduct additional EMC testing and certification on the final equipment.</li> <li>Loading range from 10% to 100%.</li> <li>Specifications are subject to change without prior notice. Contact your supplier to confirm any critical parameters.</li> </ol> |

## Dimming Operation

- Dimming is with installing a leading edge, or trailing edge dimmer across the AC input.
- Compatible with most leading edge and trailing edge dimmers. Australian compatibility table available on request.
- It is recommended that a dimmer, with a power rating three times higher than that of the rated output of the LED driver is used.

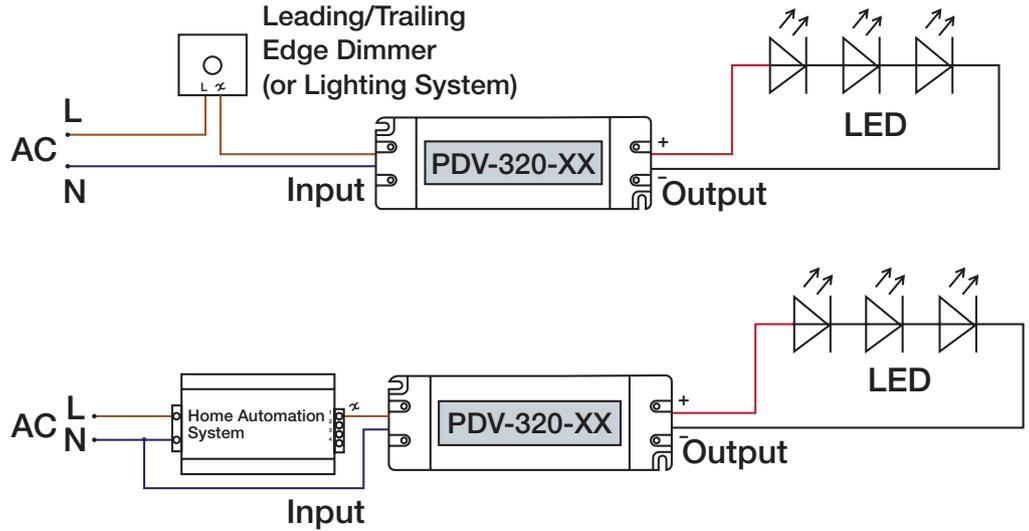
PDV-320-12



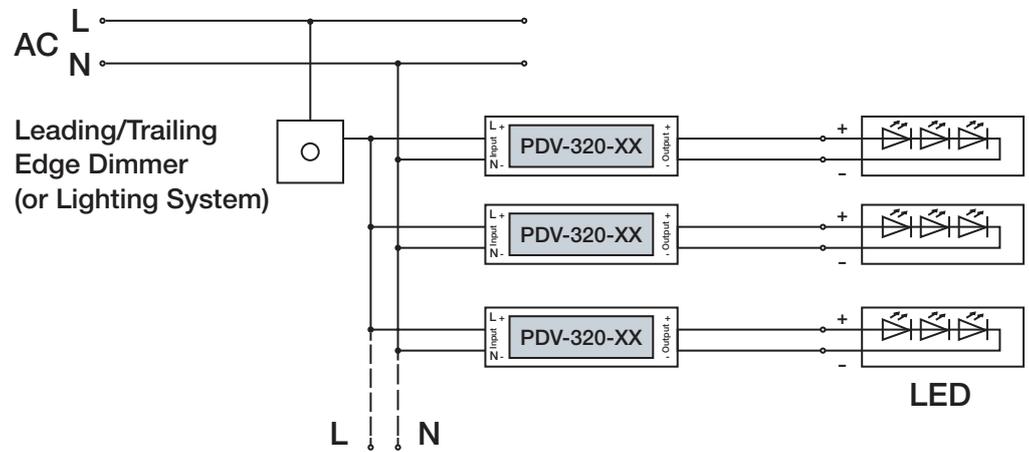
## Mechanical Specification

- Output cable type: Rubber SJTW 14AWG 2\*2.08mm<sup>2</sup>
- Connect LED to LED driver via the output cable: Red output(V+) Positive, Black output (V-) negative.
- Incorrect wiring could result in damage to the LED driver, which is not covered by the warranty.
- Contact your supplier with specific input, or output configuration request.

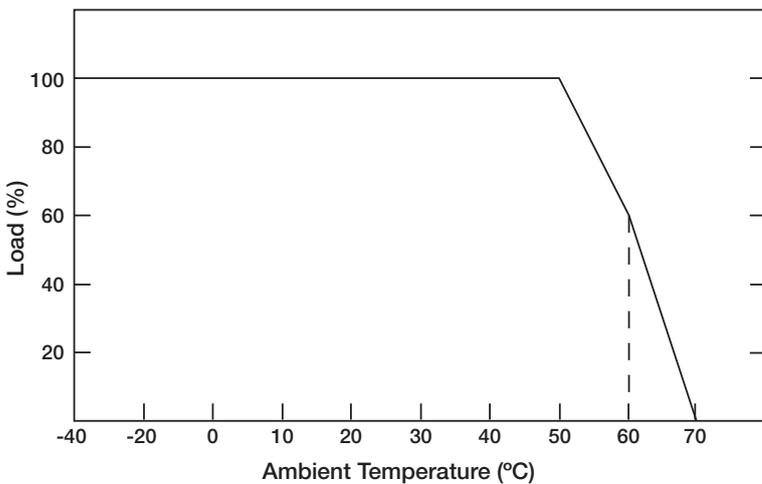
## Single Driver Connection Diagram



## Multiple Drivers Connection Diagram



## 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.



## Important

- 1) This LED driver should be installed by a qualified electrician.
- 2) Please make sure the LED driver is installed with adequate ventilation around it to allow for heat dissipation.
- 3) Ensure that all wiring is correct before testing in order to avoid damage to the LED driver, or the LEDs.