



### Features:

- Constant Voltage PWM Output
- AC Input Range: 200~240VAC with PFC
- Mains AC Phase Triac Dimmable LED Driver
- Protections: Short Circuit/Over Load/Over Current/Over temperature
- Class II Power Supply
- IP20 Design for indoor installation
- Cooling by Free Air convection
- Compatible with most Leading and Trailing edge dimmers
- Factory fitted flex and AU Plug
- 5 year warranty

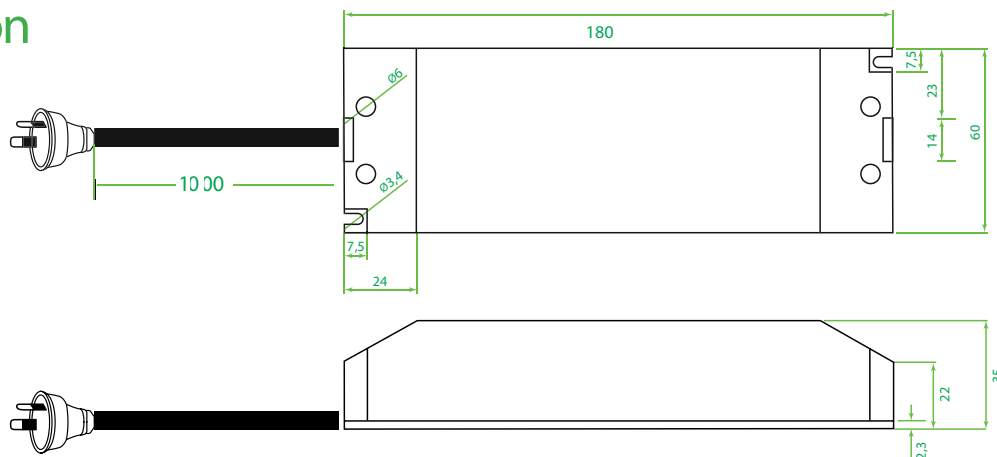
| Model        |   | PDV-75-12   | PDV-75-24      |                               |
|--------------|---|---|----------------|-------------------------------|
| Output       | DC Voltage (V)  | 12V   | 24V            |                               |
|              | Voltage Tolerance   | ±0.5V (See Note 2.)   |                |                               |
|              | Rated Current   | 6.25A   | 3.125A         |                               |
|              | Rated Power   | 75W   |                |                               |
| Input        | Voltage Range   | 200~240VAC  |                |                               |
|              | Frequency Range   | 47~63Hz   |                |                               |
|              | Power Factor  | PF≥0.98/200VAC  | PF≥0.98/230VAC | PF≥0.98/240VAC (Full loading) |
|              | Full load efficiency (Typ.)   | 85%   |                |                               |
|              | AC Current (Max.)   | 0.55A   |                |                               |
|              | Leakage current   | <0.50mA   |                |                               |
|              | Inrush Current  | (Typ.): Cold Start 68A (twidh=130us measured at 50% Ipeak) at 230VAC                |                |                               |
|              | MAX. No. of drivers on 16A Circuit breaker  | 4 units (circuit breaker of type B) / 7 units (circuit breaker of type C) at 230VAC |                |                               |
| Protection   | Short circuit   | Shut down o/p voltage, re-power on to recover after fault condition is removed      |                |                               |
|              | Over loading (Note 4.)  | ≤120%: Hiccup mode recovers automatically after fault condition is removed          |                |                               |
|              | Over current  | ≤1.2 *Iout  |                |                               |
|              | Over temperature  | 100°C± 10°C shut down o/p voltage, re-power on to recover                           |                |                               |
| Environment  | Working TEMP.   | -40~+70°C (refer to de-rating curve)  |                |                               |
|              | Working humidity  | 20-90%RH, non-condensing  |                |                               |
|              | Storage TEMP, humidity  | -40~+80°C,10-95%RH  |                |                               |
|              | TEMP. coefficient   | ±0.03%/°C (0-50°C)  |                |                               |
|              | Vibration   | 10-500Hz, 2G 10min./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   |                |                               |
|              | Isolation resistance  | I/P-O/P: 100MΩ/500VDC/25°C/70%RH  |                |                               |
|              | EMC emissions (Note 3.)   | EN55015, EN61000-3-2,3 (≥60%loading)  |                |                               |
| Others       | Net. weight   | 0.6KG   |                |                               |
|              | Size  | 180*60*35mm (L*W*H)   |                |                               |
|              | Packing   | 355*215*215mm outside carton 20PCS/CTN  |                |                               |
| Notes        | 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.<br>2. Tolerance: Includes set up tolerance and load regulation.<br>3. The power supply is considered as a component that is operated in combination 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.<br>4. Loading range from 10% to 100%<br>5. Specifications are subject to change without prior notice. Contact ADM Systems to confirm any critical parameters. |   |                |                               |

## Dimming

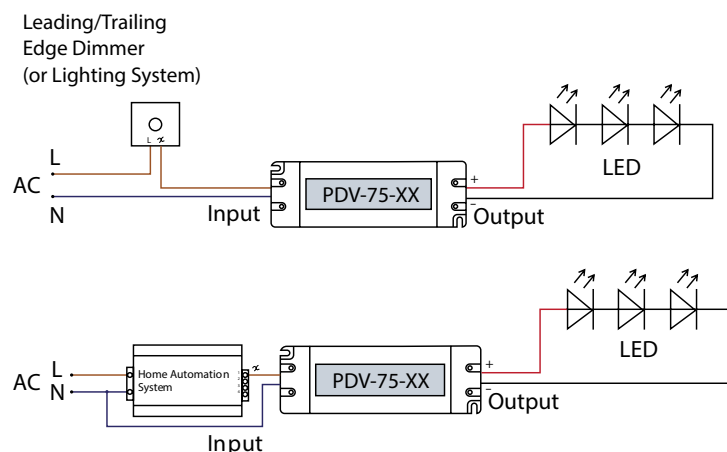
- Dimming is with installing a leading edge, or trailing edge dimmer across the AC input.
- Compatible with most leading edge and trailing edge dimmers. Australian compatibility table available on request.
- It is recommended that a dimmer, with a power rating three times higher than that of the rated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

### Mechanical Specification

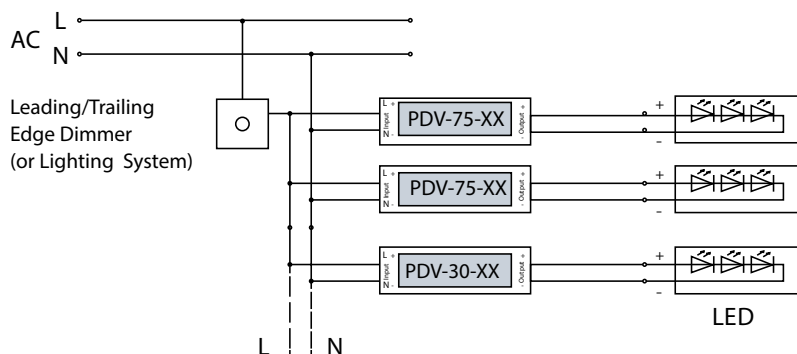
- Connect LED to LED driver via screw terminals under removable cover. Positive (LED+), Negative (LED-).
- Suggested output wire diameter: 0.5-2.5mm<sup>2</sup>.
- Incorrect wiring could result in damage to the power supply, which is not covered by the warranty.
- Contact your supplier with specific input, or output configuration requests.



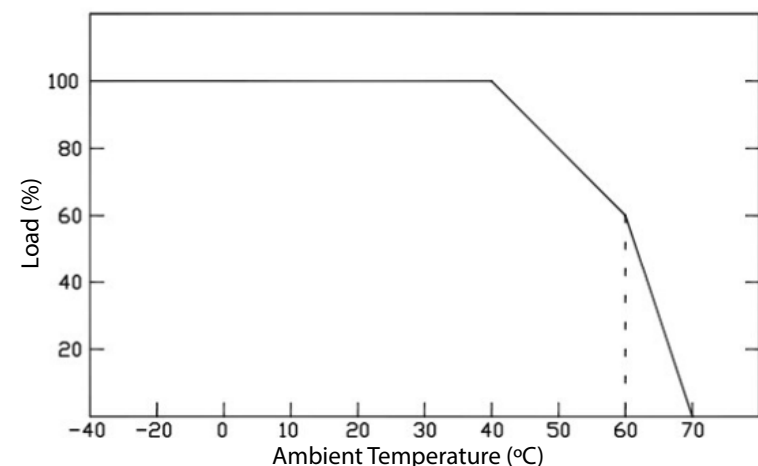
### Single Driver Connection Diagram



### 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.

- 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.