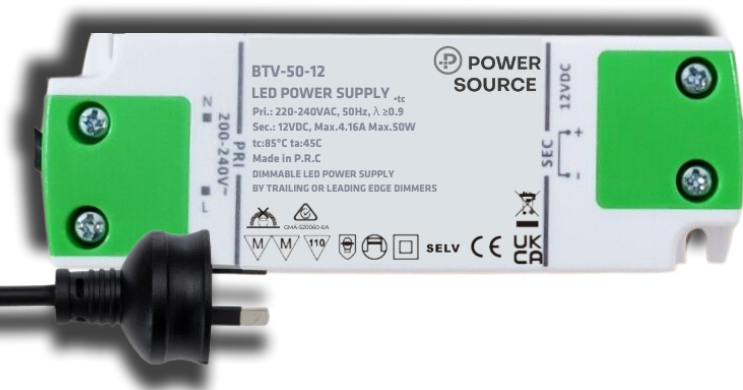




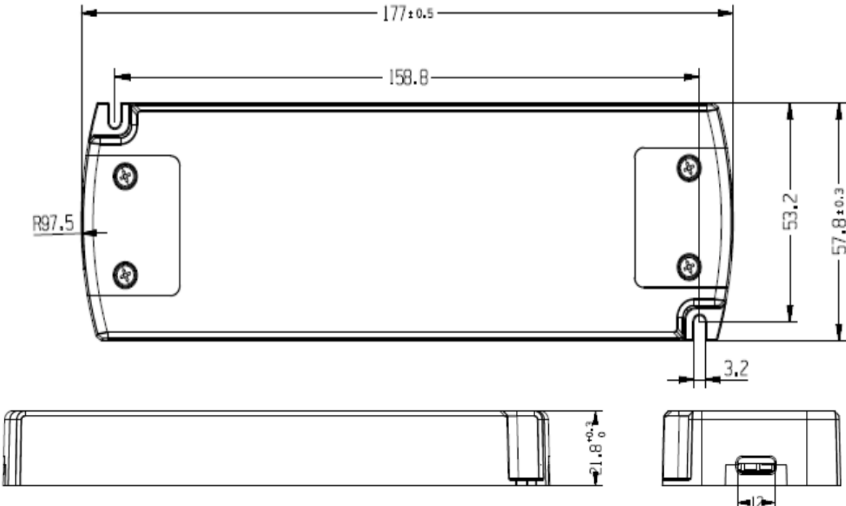
Features:

- Constant Voltage output
- Mains AC Phase Triac Dimmable LED Driver
- Protections: Short Circuit/Over Load/Over Voltage/ Over temperature
- Class II Power Supply
- IP20 Design for indoor installation
- Cooling by Free Air convection
- Factory fitted flex and AU Plug
- Certified Level 3 for residential applications
- 3 year warranty

| Model        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | BTV-50-12                                                 | BTV-50-24 |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|-----------|
| Output       | DC voltage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 12V                                                       | 24V       |
|              | Voltage tolerance                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ±5%                                                       |           |
|              | Rated current                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 4.16A                                                     | 2.08A     |
|              | Rated power                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 50W                                                       |           |
| Input        | Voltage range                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 220-240VAC                                                |           |
|              | Frequency range                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 50-60Hz                                                   |           |
|              | Power factor                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | PF ≥ 0.9/230VAC/50Hz                                      |           |
|              | Full load efficiency (Typ.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 85%                                                       |           |
|              | AC current (Max.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.3A                                                      |           |
|              | Leakage current                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Max 0.7mA 230VAC/50Hz Full load                           |           |
|              | Inrush current                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Cold start <75A at 230VAC/60Hz                            |           |
| Protection   | Short Circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Hiccup - recovers automatically                           |           |
|              | Over Load                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Hiccup - recovers automatically                           |           |
|              | Over Voltage                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1.5 times of rated output voltage. Cycle power to recover |           |
|              | Over Temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | IC detect TC = 115°                                       |           |
| Environment  | Working TEMP                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -20~+45°C (refer to derating curve)                       |           |
|              | Humidity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 5-95% RH                                                  |           |
| Safety & EMC | Safety Standards                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | AS/NZS 61347-1, 61347-2-13                                |           |
|              | Withstand voltage                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Min I/P-O/P: 3.75KVAC / 5mA. Max /60s                     |           |
|              | Isolation resistance                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | I/P-O/P: ≥10MΩ/500VDC/25°C/70%RH                          |           |
|              | EMC emissions (Note 3.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | EN IEC 61000-3-2, Class C. EN55015 (CSPR15)               |           |
| Other        | Net. weight                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.36kg                                                    |           |
|              | Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 177*57.8*21.8mm (L*W*H)                                   |           |
| Notes        | <div>1. 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.</div> <div>2. Recommended loading range from 10% to 100%.</div> <div>3. Specifications are subject to change without prior notice. Contact ADM to confirm any critical parameters.</div> |                                                           |           |

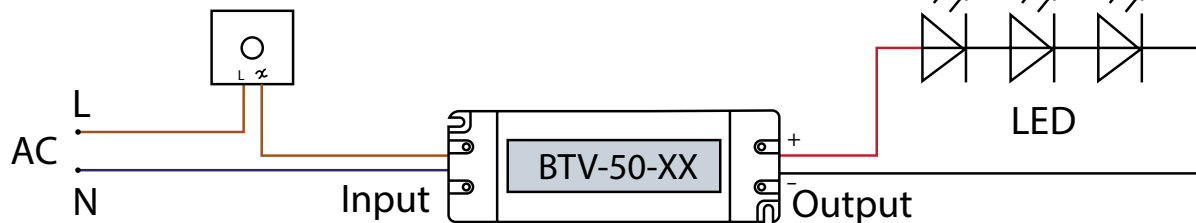
Mechanical Specification

- Connect LED to LED driver via screw terminals under removable cover. Positive (LED+), Negative (LED-).
- Incorrect wiring could result in damage to the power supply, which is not covered by the warranty.
- Contact ADM with specific input, or output configuration requests.



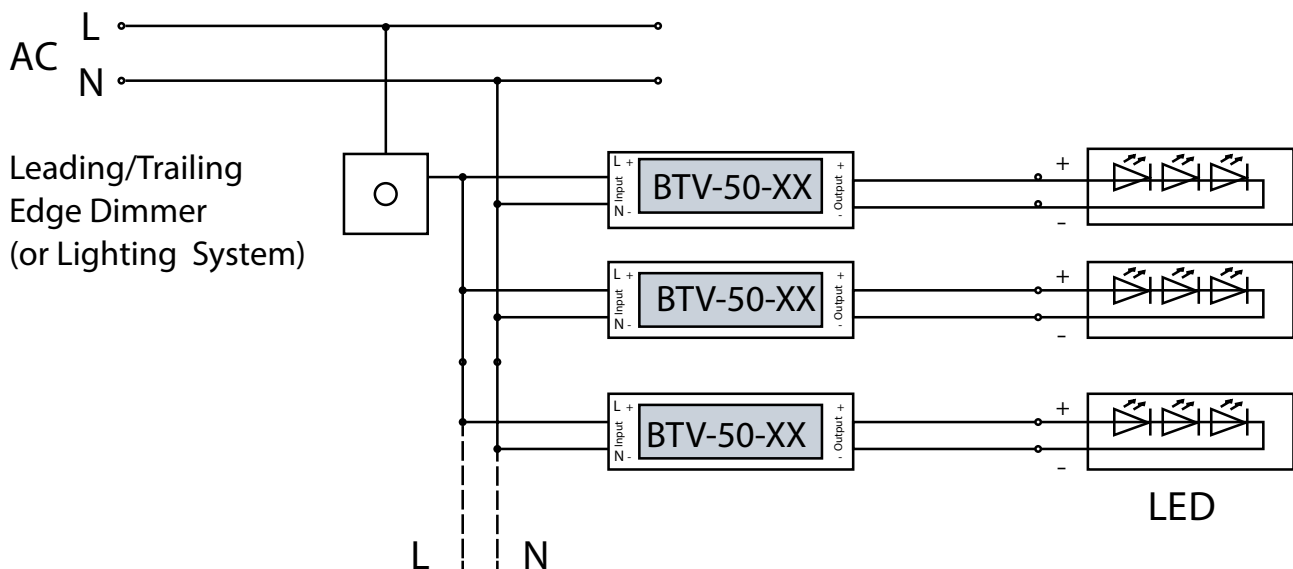
### Single Drivers Connection Diagram

Leading/Trailing  
Edge Dimmer  
(or Lighting System)

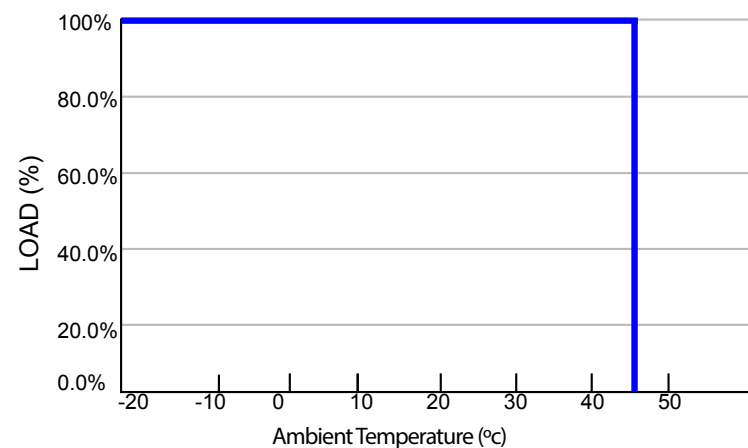


Compatible with most Leading Edge and Trailing Edge dimmers. The unique combination of dimmer, LED driver and light fitting will determine good dimming performance. It is highly recommended to test the compatibility of a lighting system before mass installation is complete

### Multiple Drivers Connection Diagram



### De-rating Curve



#### Instruction:

- 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.