

BTV-50 series

### Mains AC Phase Triac Dimmable LED Driver with PWM Output



SOURCE

**POWER** 

#### **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
  - 5 year warranty

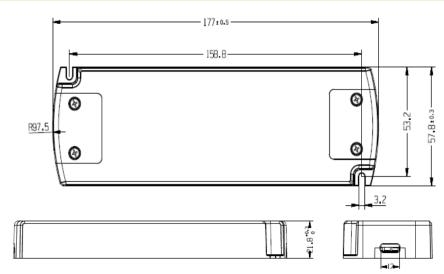
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	Model			BTV-50-12

Model		BTV-50-12	BTV-50-24		
	DC voltage	12V	24V		
0	Voltage tolerance	±5%			
Output	Rated current	4.16A	2.08A		
	Rated power	50W			
	Voltage range	220-240VAC			
	Frequency range	50-60Hz			
	Power factor	PF ≥ 0.9/230VAC/50Hz			
Input	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			
	Short Circuit	Hiccup - recovers automatically			
Protection	Over Load	Hiccup - recovers automatically			
riotection	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)			
LIMIOIIIIEIIC	Humidity	5-95% RH			
	Safety Standards	AS/NZS 61347-1, 61347-2-13			
Safety & EMC	Withstand voltage	Min I/P-O/P: 3.75KVAC / 5mA. Max /60s			
Salety & LIVIC	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			
Other	Size	177*57.8*21.8mm (L*W*H)			
Notes	<ol> <li>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.</li> <li>Recommended loading range from 10% to 100%.</li> <li>Specifications are subject to change without prior notice. Contact ADM to confirm any critical parameters.</li> </ol>				

## **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
- Contact ADM with specific input, or output configuration requests.

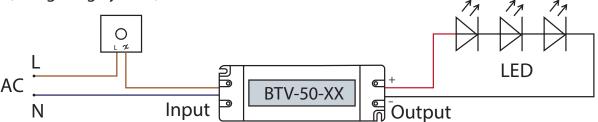
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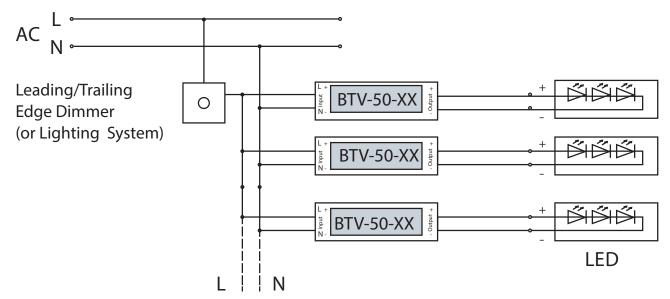


# Single Drivers Connection Diagram

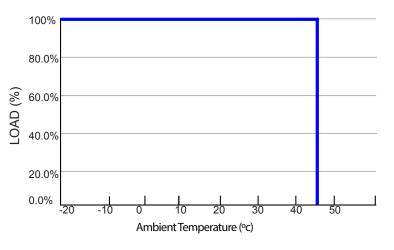
Leading/Trailing Edge Dimmer (or Lighting System) Compatiable with most Leading Edge and Trailing Edge dimmers. The unique combination of dimmer, LED driver and light fitting will determine good dimming performance. It is highly recommended to test the compatibility of a lighting system before mass installation 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.