

POWER SOURCE



**5 YEAR
WARRANTY**

60W **Multi-Dim** **Phasecut +0-10V** **Slimline** **LED Driver** with PWM Output

Features of the: LMVT-60 Series



Constant
Voltage PWM
Output



IP20 Design
For Indoor
Installation



AC Input Range:
200-240VAC
with PFC



Cooling by
Free Air
Convection



Protections:
• Short Circuit
• Over Load
• Over Temperature



High
Efficiency



Class II
Power Supply



0-10V,
Phase Cut



CE      IP20 SELV CB

| Model | | LMVT-60-12 | LMVT-60-24 |
|--------------|---|---|-------------|
| Output | DC voltage | 12V | 24V |
| | Voltage tolerance | ±0.5V (see Note 2.) | |
| | Rated current | 5A | 2.5A |
| | Rated power | 60W | |
| Input | Voltage range | 200-240VAC | |
| | Frequency range | 47-63HZ | |
| | Power factor | 0.96 @ 230VAC | |
| | Full load efficiency (Typ.) | 83% | 86% |
| | AC current (Max.) | 0.5A@100VAC | 0.5A@100VAC |
| | Leakage current | <0.50mA | |
| | Inrush current | 57.6A, 50%, 102us | |
| | MAX. No. of drivers on 16A circuit breaker | 4 units (circuit breaker of type B) / 6 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 temperature (Note 6.) | 80°C± 10°C | |
| 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 | |
| | TEMP. coefficient | ±0.03%/°C (0~50°C) | |
| | Vibration | 10-500Hz, 5G 10min./1 cycle, period for 60min, each along X, Y, Z axes | |
| Safety & EMC | Safety standards | EN61347-1 EN61347-2-13 EN62493 | |
| | 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, EN61000-3-3 | |
| | EMC immunity | EN61000-4-2,3,4,5,6,11, EN61547 | |
| Others | Net. weight | 0.3kg | |
| | Size | 330*30*19mm (L*W*D) | |
| | Packing | 330*330*130mm/50PCS/CTN | |
| Notes | <ol style="list-style-type: none"> All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. Tolerance: Includes set up tolerance, line regulation and load regulation. 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. Normal loading range from 10% to 100%. Specifications are subject to change without prior notice. Contact your supplier to confirm any critical parameters. Reading taken at tc point marked on product label. | | |

Input & Output Terminals

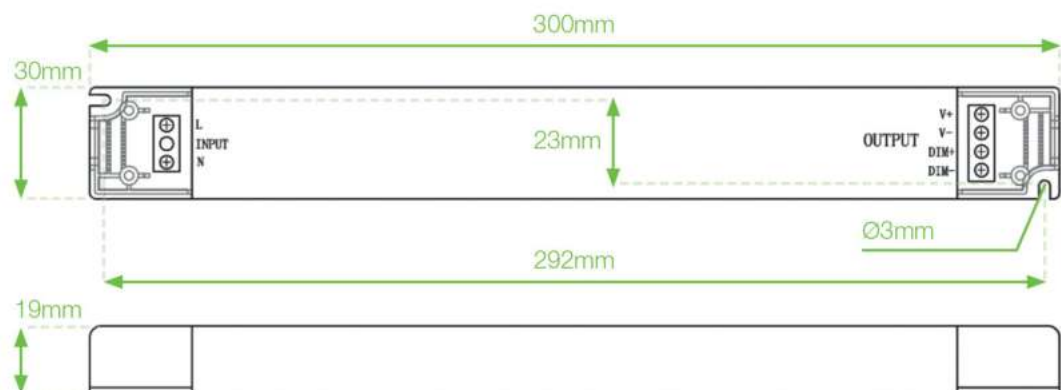
Mechanical Specification

Input Terminals:
Suggested input wire size:
0.75mm² - 2.5mm²

Output Terminals:
Suggested output wire size:
0.5mm² - 2.5mm²

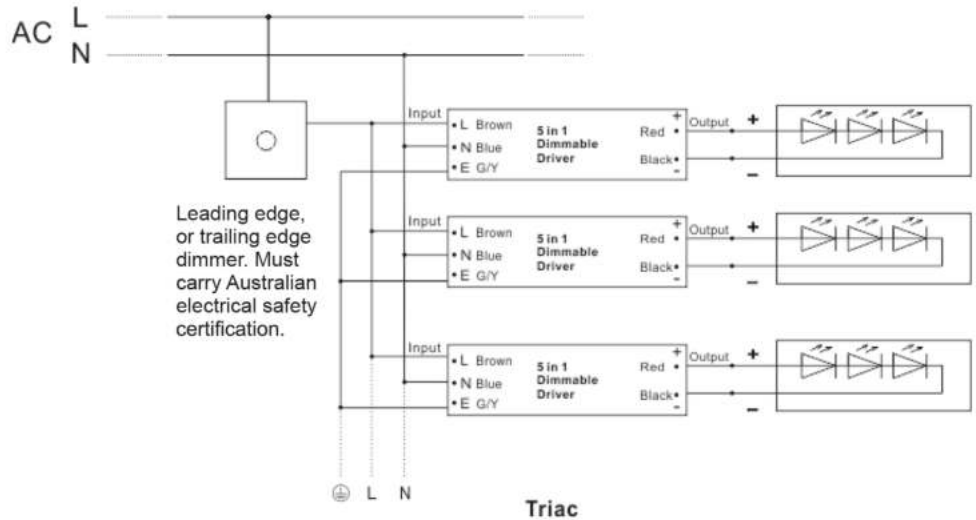
Dimming Terminals:
DIM (+) to 0/1-10V dimmer signal (+),
DIM (-) to 0/1-10V dimmer signal (-)
Suggested dimming wire size:
0.5mm² - 2.5mm²

Incorrect wiring could result in damage to the power supply, which is not covered by the warranty.

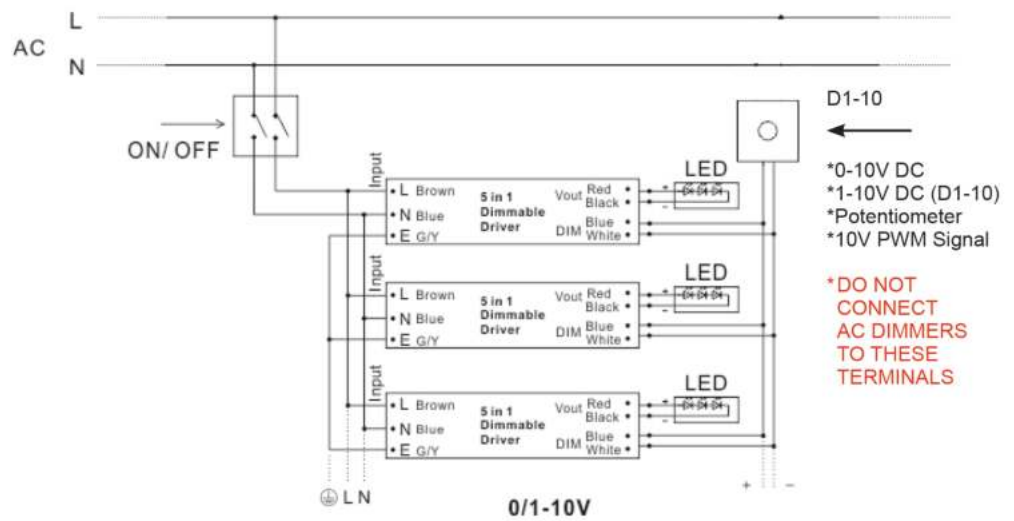


Dimming Operation

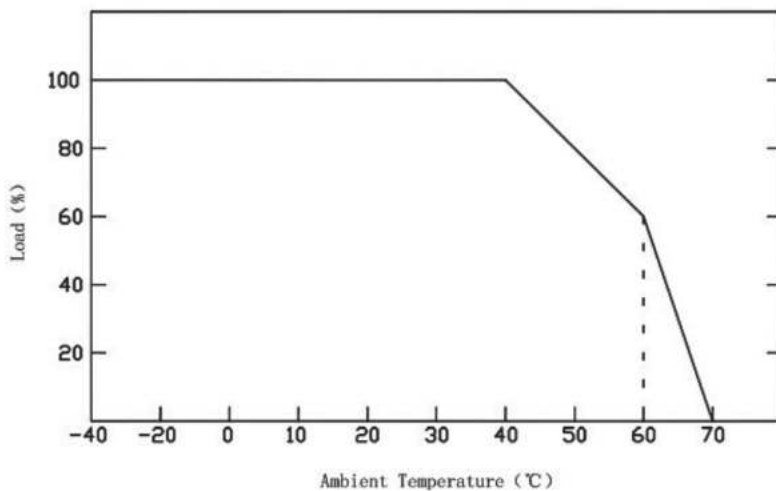
Phase Dimming Connection Diagram



0-10V (1-10V) 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.

Power Source D1-10 1-10V Dimmer



- Dimming range: 10-100%
- Controls up to 30 LED Drivers
- Operating temp: 0-50°C
- Compatible with most switch wall plates

Important

- 1) Refer to Power Source Installation Manual.
- 2) Do Not Cover.
- 3) This LED driver should be installed by a qualified electrician.
- 4) Please make sure the LED driver is installed with adequate ventilation around it to allow for heat dissipation.
- 5) Ensure that all wiring is correct before testing in order to avoid damage to the LED driver, or the LEDs.