

# Dimming Waterproof LED Driver(Constant Voltage)



**LUMINGLITE**

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## LMDV-150-12 LMDV-150-24

## LMDV-150-12/24

### Feature

- Constant voltage design
- With soft-on and fade-in dimming function, enhancing your visual comfort.
- Dimming from 0~100%, down to 0.1%
- 0-10V dimming: 0-10V/Potentiometer/PWM 3 in 1
- No flicker
- SELV output(<60V)
- Faster star-up times<1s
- No load power consumption≤2W
- Open circuit, short circuit, overload protection
- Efficiency :91%(AC230 full load)
- 5 years warranty
- Applied to LED advertising signs,cabinet



- Output Voltage
- Output Watts
- Model Name

### Technical Specs



|                               | LMDV-150-12  | LMDV-150-24   |
|-------------------------------|--|---|
| <b>OUTPUT</b>                 |  |   |
| Output Voltage                | 12Vdc  | 24Vdc   |
| Output Voltage Range          | 12Vdc±5%Vdc  | 24Vdc±5%Vdc   |
| Output Current                | 12.5A Max  | 6.25A Max   |
| Output Power                  | 150W   |   |
| Output Power Range            | 0-150W   |   |
| Dimming Range                 | 0~100%, down to 0.1%   |   |
| Output Ripple & Noise         | ≤600mV   |   |
| PWM Frequency                 | 3600Hz   |   |
| <b>INPUT</b>                  |  |   |
| Input Voltage Range           | 200Vac-240Vac  |   |
| Input Frequency Range         | 50 ~ 60HZ  |   |
| Input Current                 | ≤0.83A(200-240Vac)   |   |
| Surge Current (cold start)    | 46A @230Vac  |   |
| Power Efficiency(typ)         | 91%  |   |
| PF                            | >0.95  |   |
| Leakage Current               | <0.75mA/240Vac   |   |
| <b>PROTECTION</b>             |  |   |
| Over-Current Protection       | Shut down the output when current load ≥ 110% , and recover automatically.                     |   |
| Short-Circuit Protection      | Hiccup Mode and recover automatically.   |   |
| Over-Voltage Protection       | Shut down the output when non-load voltage ≥13V, and recover automatically.                    | Shut down the output when non-load voltage≥ 26V, and recover automatically. |
| <b>ENVIRONMENT</b>            |  |   |
| Working Temperature           | -25°C~+50°C  |   |
| Working Humidity              | 10%~95%RH  |   |
| Approved Enviroments Location | for dry, damp ,wet locations   |   |
| Storage Temperature           | ~35°C~+65°C  |   |
| Storage Humidity              | 10% ~95%RH   |   |
| IP Rating                     | IP67 ( note 1)   |   |
| Vibration                     | 10~500Hz, 1.0mm, 15 minutes(for X,Y,Z each axis)   |   |
| Tcase                         | +85°C  |   |
| <b>SAFETY&amp;EMC</b>         |  |   |
| LVD                           | EN61347-1,EN61347-2-13,EN62493   |   |
| Dielectric Strength (Hi-Pot)  | I/P-O/P  | 3.75KVAC/ 5mA/ 1min   |
|                               | I/P-Case   | 1.5KVAC/ 5mA/ 1min  |
| Insulation Resistance         | 100MΩ / 500VDC/ 1min   |   |
| Grounding Resistance          | ≤0.5Ω  |   |
| EMC                           | EN55015,EN61000-3-2,EN61000-3-3,EN61547  |   |
| EFT                           | 20KV ON AC power line  |   |
| SURGE                         | 4KV(L-GND,N-GND) (IEC61000-4-5)  |   |
| <b>OTHERS</b>                 |  |   |
| MTBF                          | 200Khrs. MIL-HDBK-217F(25°C)   |   |
| LIFE TIME                     | 50,000 hours at Tc ≤ 80°C maximum case hot spot temperature                                    |   |
| DIMMER COMPATIBILITY          | 0/1-10V Dimming  |   |
| Dimensions                    | 309*35*23mm(L*W*H)   |   |
| Weight                        | 0.5 kg   |   |
| Outer Box Specifications      | 535*345*155mm(L*W*H) / 50pcs/ctn Total 5 layer, each layer 10 pcs / G.W26kg/N.W25KG(1±10 %) kg |   |

#### Remarks:

Note 1: IP67 can be used in dry, damp, wet locations. Avoid installing in submerged environments or applications where drivers will come into direct contact with prolonged flowing or dipping water.

Test environment temperature : 25 ± 2°C;

Ripple and noise measurement methods: terminal to parallel 47uF electrolytic capacity and 0.1uF ceramic capacity, in 20 MHZ Bandwidth measurement.

"The driver is suitable for connecting resistor current-limiting LED fixture (e.g. LED strip). The inrush current will be dozens of times increased if connecting built-in constant current IC current-limiting LED fixtures, the driver will activate the overloaded protection (hiccups flickering)."

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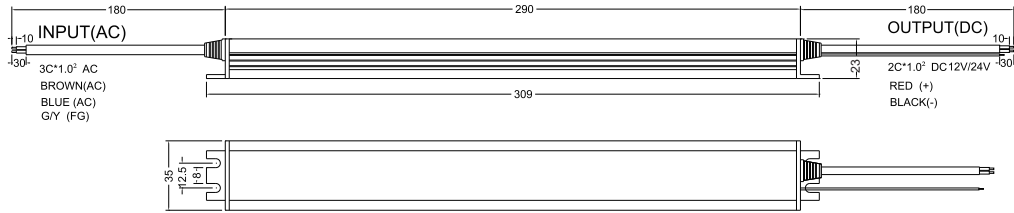
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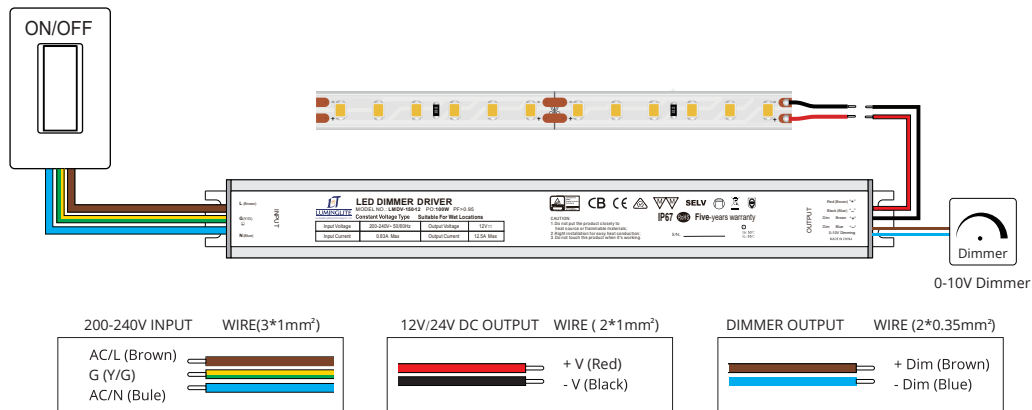
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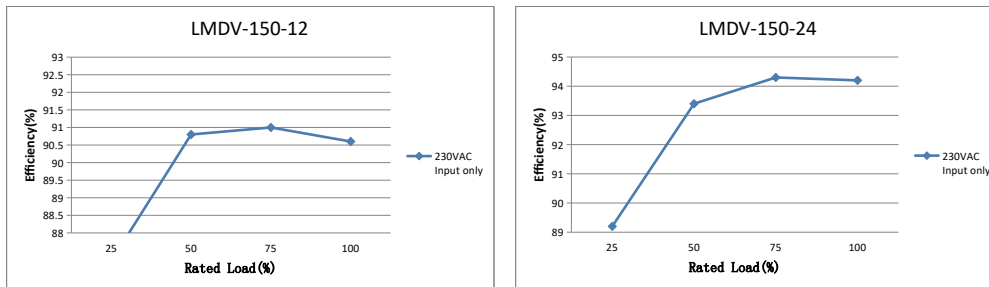
## Profile Drawing



## Wiring Diagram

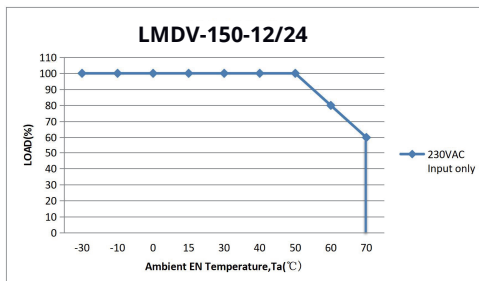


## OUTPUT LOAD vs Efficiency (Input only 230VAC)



## OUTPUT LOAD vs Temperature (Input only 230VAC)

The LMDV-150-12/24 series can be operated with cooling air temperatures between -30°C- 50°C by linearly de-rating the total maximum output power (or current) by 2.0%/°C from 50°C to 70°C (see figure ).



## Attentions

- Please ensure that the ground wire is properly grounded and ensure it does not come into contact with the neutral wire.
- Please make the power supply installed in a well-ventilated place, to ensure that the environment temperature is appropriate.
- Do not overload the power supply with multiple appliances.
- Please do not touch the metal shell surface to avoid high temperature scald.
- Do not install in the minefield or high pressure area.
- Do not attempt to repair privately. Please contact the supplier if you have any questions.

## Tips

- To be installed by a certified electrician. Please read and follow the instructions carefully before installing. Ensure all contact points are connected firmly.
- Please pay attention to the using environment, and conduct regular check and maintenance to eliminate safety risks.