

45W Universal Dimming Class 2 LED Driver

Model: MD45W12VA (Suitable for use in dry and damp locations)

Outstanding LED lighting dimming performance, architectural quality brightness control, guaranteed dimmer compatibility

Dimming LED Drivers feature an integrated microprocessor that automatically senses and optimizes dimming performance based on the load and type of dimming technology being used.

- Delivers smooth, stable, flicker-free dimming with soft start and desirable fade-on and fade-to-dark performance
- When a dimmer is set to full brightness there is no loss of top-end light output
- No minimum lighting load required for wide range dimming
- No de-rating, load up to 100% of the model's rated capacity
- Compatible with both single color and RGB color-changing LED lighting
- Rated for 50,000 hours when used 8-12 hours a day at full load, expect longer life when dimmed or using lesser wattage loads.

INSTALLATION GUIDELINES

Shock hazard. Turn off power at circuit breaker before connecting.

- This driver works with both 12 volt DC and 120 volt AC dimmers, but not at the same time. If using with a 12 volt DC dimmer or RGB color controller, do not also use a 120V AC dimmer in the same circuit
- Allow for ventilation. Do not install inside a cabinet smaller than 12 in. W x 12 in. H x 12 in. D
- **CAUTION:** Mount the unit at a height greater than 1 ft (30 cm) from the ground surface
- Operate only within specified ambient temperature range of 4°F (-20°C) to 104°F (40°C). Operating at cooler surrounding air temperatures will extend driver life
- ETL Listed, suitable for dry and damp locations. For locations that could be exposed to rain or splashing water, install driver in suitable wet location power supply enclosure
- Total wattage of all LED fixtures used must not exceed the 45 watt rating of this power supply
- Use only insulated staples or plastic ties to secure cords and wires
- Route and secure wires so they will not be pinched or damaged
- All wiring must be in accordance with national and local electrical codes, low voltage Class 2 circuit. For wire runs inside of walls, use properly certified CL2 or better cabling and appropriate mounting hardware. If you are unclear as to how to install and wire this product, contact a qualified electrician. Failure to install this device properly may result in electrical shock or fire
- Do not install Class 2 low voltage wiring in the same runs as AC main power. If AC and low voltage wires cross, keep them at 90-degree angles

HARDWARE INSTALLATION

Remove end caps to access terminal block connectors for both AC input and DC outputs. Use Romex® style 14-gauge to tie in with 120 volt AC line voltage. For low voltage DC output side 18-gauge cable is recommended. Be sure all wires are properly seated inside and under the terminal block screw clamp. Tighten down clamp with screwdriver. Do not over-tighten.

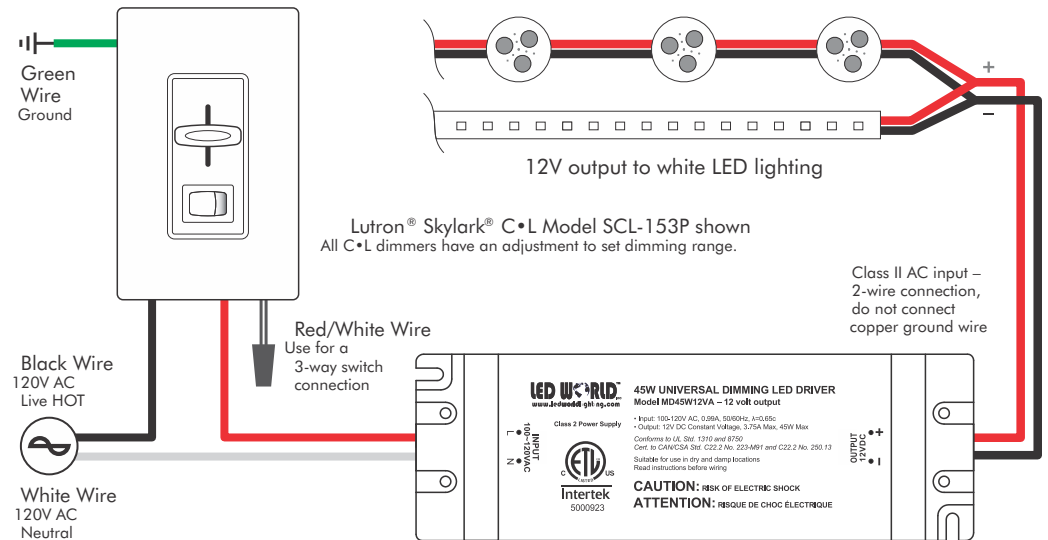
Note: Do not use AC ground wire.

This LED driver utilizes Class II AC inputs with a fully isolated plastic case, no ground wire is required.



This 45 watt LED driver is compatible with both forward phase (leading edge, triac, incandescent) and reverse phase (electronic low voltage, ELV and trailing edge) AC dimmers. It is also compatible with low voltage PWM dimmers and higher-end lighting® controls such as Lutron GRAFIK Eye systems. Although any dimmer will work with the MD45W12VA Dimming LED drivers, It is recommended to use Lutron C•L and Leviton Decora LED/CFL Universal Dimmers. They are readily available in a wide range of styles and colors and feature an adjustment to set the low end dimming range.

For large applications and multiple zones of lighting, one 120V AC dimmer can be connected to multiple 45 watt dimming drivers. Do not exceed 40% of your AC dimmer's rated maximum allowable incandescent/halogen wattage capacity. If the dimmer states 600 watts maximum incandescent load, do not connect more than five 45 watt the MD45W12VA drivers (max combined load of 225 watts). If the dimmer is rated for 2000 watts incandescent, do not connect more than 17 LED drivers (max combined load of 765 watts). The MD45W12VA Universal Dimming LED Drivers require no minimum load.



Dimensions: 7.0625" L x 2.375" W x 1" H

For smooth dimming 8W minimum load is required

SPECIFICATIONS

- Full shut off protection in case of lighting overload, open circuit, short circuit, over-temperature or other fault. Unit will automatically restart after the fault has been corrected
- 100% full load burn-in testing, can connect up to 100% of the rated maximum load
- Input Voltage: 100-120V AC, 0.99A, 50/60Hz, $\lambda=0.65c$
- Output: 12V DC Constant Voltage, 45W, 3.75A Max
- Class II AC input (2-wire connection, requires no ground)
- Complies with FCC Part 15B

Limited 5-year warranty. Warranty will be void if Complies with FCC Part 15B LED driver is not installed per these instructions. Regarding warnings, failure to use this product for its intended purpose or improper installation will void warranty. Proof of purchase is required for all returns.



Conforms to UL Std. 1310 and 8750, Cert. to CAN/CSA Std. C22.2 No. 223-M91 and C22.2 No. 250.13