

RL-E12 (600 mA or 48V)

LOW VOLTAGE LED LAMP



Candelabra E12 DC Screw-In Lamp

The RL-E12 LED lamp offers high lumen output in a traditional Edison light bulb format featuring smooth dimming and efficient operation. ATX LED's E12 LED lamps are available as filament style bulbs.

Key Specifications

| | Value | Signature (6V) | Signature (9V) |
|----------------------------|---|----------------|----------------|
| Electrical/Operational | | | |
| LEDs per home run | 32 | 24 | 24 |
| LEDs per AL-WS-DRx channel | 10 | 8 | 5 |
| Operating Wattage | 3 W | 4 W | 3.6W |
| Operating Voltage | 40-52 V | 5-6 V | 7.5-9 V |
| Operating Current | 65 mA | 660 mA | 400 mA |
| Operating Temperature | Ceiling mount, -20 to 50°C non-condensing | | |
| Photometrics/Optical | | | |
| Color Temperature | 2700K, 3500K, 4000K | | |
| CRI | 90 | | |
| Minimum rec dimming | 5% | 0% | 0% |
| Lumens | 100 lm / watt | | |

Features

- LED efficiency with traditional appearance
- Filament and frosted options available
- Smooth dimming
- Zero flicker
- Cool operation with no hot spots

Wiring Options

The RL-E12-600MA is wired in series. Up to 7 bulbs can be wired in series for the brightest result and perfect dimming. The RL-E12-48V are wired in parallel, up to 16 can be wired in parallel and share the 30 Watt drive ability of an ATX LED DR family driver. These are driverless designs: the driver can be located up to 50 ft from the LEDs using AWG20/2 wire since constant current eliminates the concerns about voltage drop.

DCC – Direct Current Controlled - Signature Line - The dimming of the bulb uses current from 0-600 mA for perfect flicker-free dimming to 0.16%. Up to eight LEDs are wired in series, and two series circuits wire to each AL-WS-DR2 for applications from 1 to 16 bulbs.

CV – Controlled by Voltage - Value line - The brightness is constant from 44 to 52 V, and dimming down to 5% is possible over a 44 to 38 V range using any ATX LED wall switch. Or a simple On/Off switch can be used with a 48 V to 51 V supply.

Color Temperature Options

The RL-E12 is available in three different fixed color temperatures (2700K, 3500K, 4000K).

| Part Number | 2700K Soft White | 3000K Bright White | 3500K Neutral White | 3850K Cool White | 4000K Direct Sun | 5000K Daylight |
|----------------------------|---------------------|-----------------------|------------------------|---------------------|---------------------|-------------------|
| <i>Fixed Color Options</i> | | | | | | |
| RL-E12-600MA-[temp] | + | | + | | + | |
| RL-E12-48V-[temp] | + | | + | | + | |

Recommended Drivers

| Wall Switch Drivers | Feature | DABus ¹ |
|---------------------|-----------|--------------------|
| AL-WS-DR1 | Value | |
| AL-WS-DR1-PIR | Motion | X |
| AL-WS-DR2 | Smart | X |
| AL-WS-DR2C | Universal | |
| AL-WS-DR2W | WiFi | |
| AL-WS-BATH | Value | |

NOTE:

1 - ATX LED Smart switches are compatible with the IEC62386 standard. For more information, please see <https://www.dali-alliance.org/dali/standards.html>.

Part Numbering

