Armacost LIGHTING

30 Watt AC Dimmable Electronic Power Supply

Model: AL30WDIM12V

Conforms to UL standard 1310
Certified to Canada/CSA standard C22.2
No. 223-M91, 3rd Edition

Highly efficient, stabilized 12V DC power for LED lighting

Delivers the right amount of power needed whether powering a 3 watt LED puck light, 30 watts of LED tape lighting, or a combination of both. A minimum load of 15 watts is required for effective dimming. For use only with white LED lighting requiring 12V DC constant voltage power.

Power supply will shut off in case of lighting overload, open circuit, short circuit, over-temperature or other fault. Unit will automatically restart after the fault has been corrected.

Not for use with color-changing RGB LED lighting. Use only with approved compatible AC dimmers.

Installation Guidelines

- Power supply is for direct wire only. For dry location use only. Allow for ventilation.
- 120V AC Power to this LED power supply must be disconnected at all times during installation.
- Total wattage of all LED fixtures used must not exceed the 30 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.

Power supply location and voltage drop

Voltage drop is a natural occurrence in all low voltage lighting systems. It is the gradual decrease in voltage that occurs from your power supply to your LED lighting. Voltage drop only becomes undesirable if you notice the brightness in one area of your lighting is objectionably different than in another area. As a practical approach to installing LED tape lights, test your lighting prior to final installation. If voltage drop appears to be a concern, use shorter lengths of DC power feed wires or switch to a thicker gauge wire (lower AWG number).

- Excessive voltage drop = reduced brightness and color accuracy
- Shorter and/or thicker wires = higher brightness and color consistency
- Longer LED tape = an increase in voltage drop

For an online voltage drop calculator, visit www.armacostlighting.com/voltagedrop.

SPECIFICATIONS

Input voltage	120V AC, 50/60Hz
Output voltage	12V DC, 2.5A Max
Power factor	>98%
Efficiency	>85%
IP protection	IP20, dry location only
Dimensions	7" L x 1.875" W x 1" H (177.8mm L x 47.625mm W x 25.4mm H)

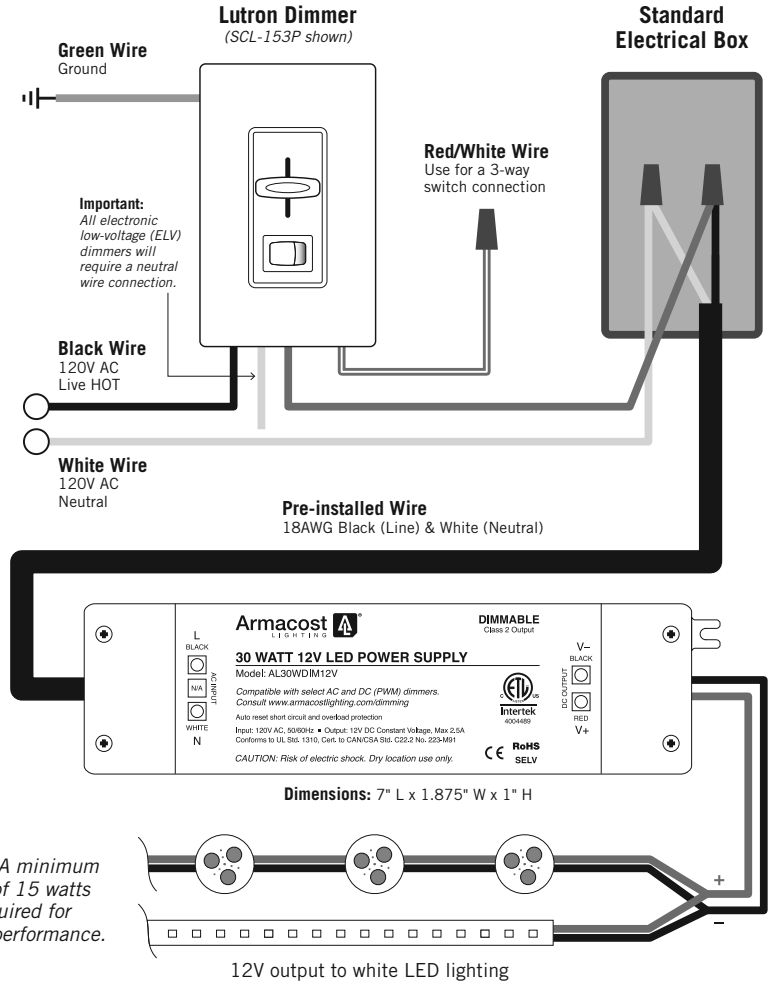
Limited 3-year warranty. Improper installation, improper powering, abuse, or failure to use this device for its intended purpose will void warranty. Proof of purchase is required for all returns. Questions? Email support@armacostlighting.com.

Intertek 4004489

RoHS COMPLIANT

TYPICAL WIRING DIAGRAM AND COMPATIBLE DIMMERS

This power supply is compatible with Lutron C•L and Digital dimmers, and most electronic low voltage (ELV) and other Universal dimmers manufactured by Lutron, Legrand and Insteon. Do not use with Armacost Lighting 12V DC low voltage dimmers. For compatible dimmers, go to **www.armacostlighting/dimmer-list**.



Dimensions: 7" L x 1.875" W x 1" H

Note: *A minimum load of 15 watts is required for best performance.*

12V output to white LED lighting

Power supply is for direct wire only. All wiring must be in accordance with national and local electrical codes, low voltage Class 2 circuit. If you are unclear as to how to install and wire this product, contact a qualified professional.

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