

DETAILS ON DIMMING

INCANDESCENT, MLV, ELV

Each dimmable fixture has certain technology within it that determines the type of dimmer to use. It's important that the dimmer matches up to the fixture technology in order for it to work properly. Applications include residential and light commercial use. Maximum 300W per configuration.



INCANDESCENT



DVSC-600P-WH



(MLV) MAGNETIC
LOW VOLTAGE



DVLV-600P-WH



(ELV) ELECTRIC
LOW VOLTAGE



DVELV-303P-WH

Not all lighting products are dimmable, and not all dimmers work with all lighting products. To check compatibility with a specific combination of dimmers and lighting fixtures, consult the factory at design@pureedgelighting.com.

KEY POINTS WHEN SELECTING A DIMMER

- How much of a load you will be putting on the dimmer.
- You must also consider if the fixtures can be controlled by one or more locations (single pole dimmer or 3-way, etc.).
- When you put multiple dimmers in the same box, you de-rate the dimmers. Refer to the dimmer manufacture for de-rating guidelines.
 - If the dimmer is located on the end of the box, your 600-watt dimmer may only be suitable to handle 500-watts
 - If located in the middle with other devices on either side, a 600-watt dimmer could become a 400-watt dimmer.

WHAT ARE THE ADVANTAGES OF USING DIMMERS?

- Create the mood and atmosphere of a room.
- Save energy.

Dimming a fixture 20% saves 20% in energy

DETAILS ON DIMMING

0-10V

Used as an early fluorescent dimming system and still used today, **0-10V dimming has been adapted to become a reliable LED dimming control protocol**. The control signal is a DC voltage that varies between zero and ten volts. The controlled lighting should scale its output so that at 10V, the controlled light should be at 100% of its potential output, and at 0V it should be at the lowest possible dimming level. Applications include architectural and larger capacity systems. Maximum 1800W for typical configurations.



LUTRON
NTSTV-DV-WH



LUTRON
DTVV-WH



LEVITON
IP710-DLX

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UNDERSTANDING DIMMING RANGE

Some power supplies don't dim all the way to 0%

If the light output can only be dimmed from 100% down to 10%, there must be a switch or relay available to kill power to the system and turn the light completely off (included in suggestions above).

- Most 0-10V controllers offer either a built-in line voltage relay or an external line voltage relay. Depending on the application, these options should be considered.

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