

APPLICATION NOTES

250-12DC-DIM

DIMMING ADJUSTMENT INSTRUCTIONS

To assure optimal performance, the dimmer range setting of the power supply may need to be adjusted to match the load characteristics of the dimmer control used with this product.

1.0 TOOLS REQUIRED

- 1.1 String of Permlight 12V DC Constant Voltage LED Modules not to exceed 5A current draw (60W) per channel.
- 1.2 Potentiometer Adjustment Tool (or suitable screwdriver, plastic shaft preferred).

2.0 PROCEDURE *Ensure AC Power is turned OFF!*

- 2.1 Connect LED Module string to any DC output channel of the dimmable power supply. Do not exceed 5A output current on any channel.

2.2 Wiring

- 2.2.1 Connect Ground to green.
- 2.2.2 Connect Neutral to white.
- 2.2.3 Connect Line to black.
- 2.2.4 Connect Control to brown.

Note: These are the same wiring instructions that can be found on the label on the top cover of the dimmable power supply.

- 2.3 Apply appropriate AC Power.
- 2.4 Adjust the setting on the Dimmer Control to its lowest setting (when the LED Module load is expected to be the dimmest).
- 2.5 Using the potentiometer tool or suitable screwdriver adjust the “Left” potentiometer on the dimmable power supply, indicated in figure 1 below until the desired low level of dimming is achieved. This is the lowest acceptable level while the LED Module load is still “ON.”

Caution! - Use minimal torque while adjusting the potentiometer!



Figure 1: Location of the “Left” potentiometer adjustment hole

Caution! -Do Not turn the “Right” potentiometer, doing so will void the warranty.

3.0 FUNCTIONALITY VERIFICATION

- 3.1 Adjust the setting of the Dimmer Control to the full “ON” setting and verify functionality.
- 3.2 Adjust the setting of the Dimmer Control to desired brightness setting. The dimmable Power Supply and Dimmer Control are now ready for use.

4.0 FURTHER ASSISTANCE

If further assistance is required or you have any questions concerning the above procedure, please call Permlight Customer Service at (714) 508-0729.

Note: Power Supply Drivers are only warranted when used with dimmers rated for the same AC input voltage.

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