



Date: 20/12/2001

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## **FP Dimmer Power Supply Inductance**

Higher than normal supply cable inductance can change the characteristics of the mains power source as presented to a thyristor dimming unit. This characteristic can affect the normal operation of dimmer output devices when these are turned on each half cycle. Higher than normal supply cable inductance can cause lamps connected to a FP dimmer rack fed from such a supply to pulse.

This Tech Note describes how to modify a FP Series Dimmer Rack to reduce the effect of high cable inductance on normal dimmer performance.

### ***PRODUCTS AFFECTED:***

- FP12RM
- FP12WM

### ***Modification:***

The following circuit modification improves the power filtering by approximately 6dB at 1kHz:

1. Turn dimmer power off.
2. Remove the lid.
3. On the main PCB near the transformers locate three 100K resistors R23, R39, and R43. Solder a 10nF 50V capacitor across each of the three resistors.
4. Replace the lid and check for correct operation.