

1.0 Scope

This instruction covers installation of the capacitor on an RTC, GBT or FurnacePros furnace power supply. Stable clean power is required for IR furnace programmable logic control (PLC) equipment. Power supplies should include a properly sized capacitor to reduce noise in the dc output.

2.0 Capacitor

Parameter	5 V Power Supplies	24 V Power Supplies
Part Number	310-100637-05	310-100637-24
Size	6.3-10 V, 10 μ F	25 V, 10 μ F
Type	Tantalum	Tantalum
Lead	Solid	Solid



Typical tantalum capacitor showing polarity, positive (+) is on left

3.0 Power Supply with Terminals

If you are installing a B3000-B or B-3000 rack or an LCM4 to a power supply equipped with terminals, install capacitor across dc positive and negative terminals at power supply. Capacitor must be installed with positive (+) lead connected to dc positive terminal. Do not install across ground.

4.0 Power Supply with Leads

If you are installing a B3000-B or B3000 rack or an LCM4 to a power supply like a PS5 that is equipped with leads (output wires) instead of terminals, install capacitor across dc positive and negative terminals as close as possible to power supply. Use terminal blocks if multiple devices are to be installed.

4.1 Single Device

If only one device such as an LCM4 is to be connected to power supply, connection capacitor across positive and negative terminals at LDM4 or other device. Capacitor must be installed with positive (+) lead connected to Vdc positive terminal on device. Do not install across ground.

4.2 Multiple Devices

If multiple devices are to be connected to power supply, use of terminal blocks is recommended. Wire power supply to terminal blocks with capacitor connected across dc positive and negative terminal blocks. Capacitor must be installed with positive (+) lead connected to Vdc positive terminal block. Do not install across ground. Wire devices to terminal blocks.



Tantalum capacitor showing polarity
Positive (+) is on the right