

P-512243A

Power Supply (12VDC / 24VDC, 3A)



Description: Cornell's P-512243A is a UL Listed power supply designed to provide continuous power to Cornell systems. It can provide 12VDC or 24VDC (switchable) with a max. 3 amp rating. Features short circuit and thermal overload protection. For use with the following Cornell systems:

1. **1000** Series = Door Monitor / Access Control (12VDC)
2. **2000** Series = Clinic Status (24VDC)
3. **4000** Series = Nurse Call (24VDC)
4. **4200** Series = Analog Area of Refuge (24VDC)

Operation: Provides primary operating power for the system and associated components. Only 1 power supply per system shall be used. Ensure the power supply is set to the proper voltage (12VDC or 24VDC) prior to energizing. Each P-512243A Power Supply is factory set at 12VDC.

Mounting: Wall mount the P-512243A using the slotted keyholes. Typically mounts in an electrical room / closet.

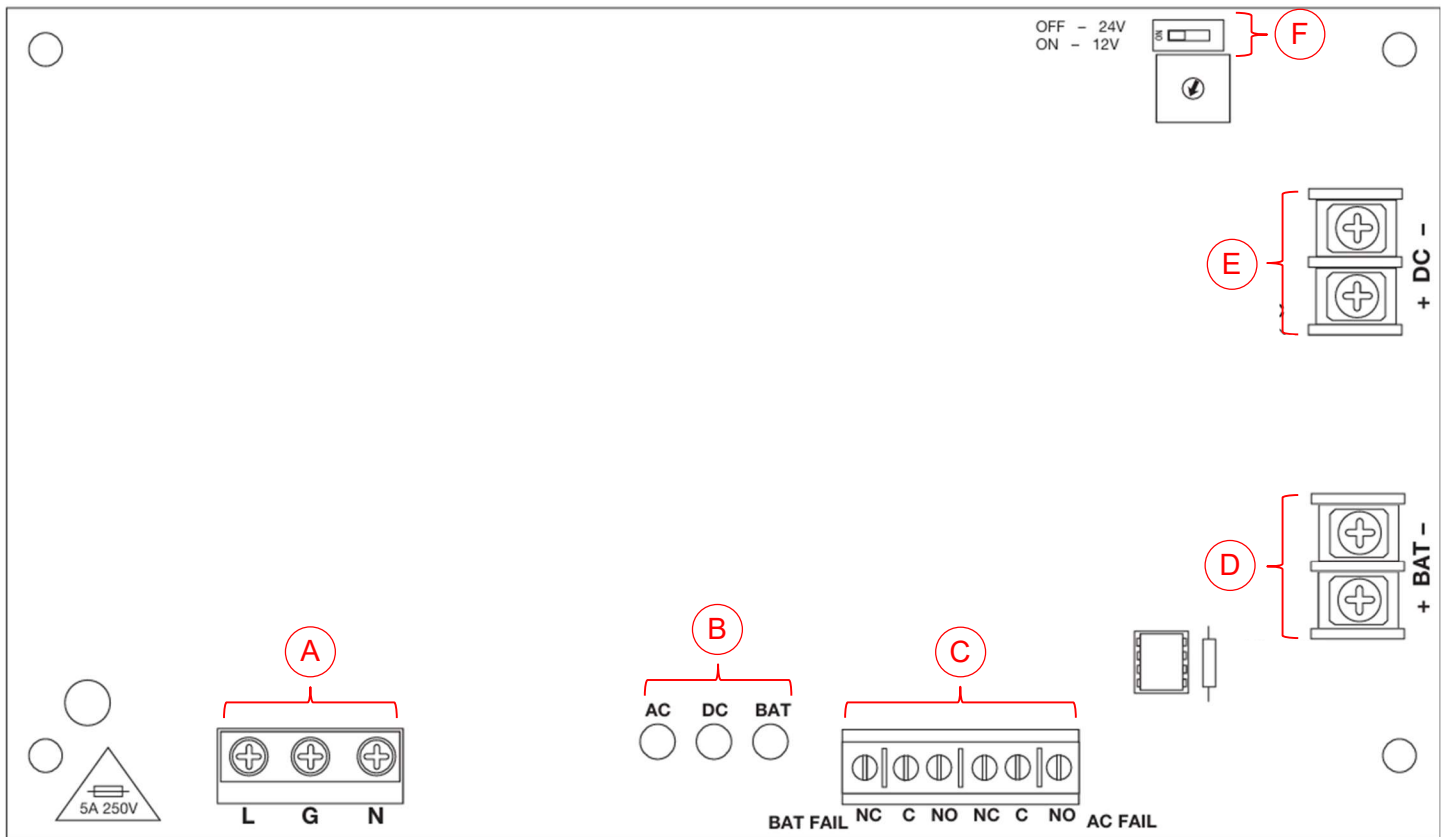
Engineering Specifications: The contractor shall furnish and install the Cornell P-512243A Power Supply as shown on the plans. Requires primary 120VAC input power. Set the voltage to 12VDC or 24VDC correctly for the type of system being installed. Includes a red (DC) and a green (AC) LED indicator for quick status diagnostics. Includes dry contact outputs for supervision of primary power (AC Fail) and battery failure (BAT Fail) conditions.

Technical Information:

- Power Requirements: 115VAC, 60Hz, 1.45 amps
- Operating Environment: 50°-120°F Indoor, Non-condensing.
- Physical Enclosure Dimensions: 13.5"H x 12.75"W x 3.25"D
- AC Fail: Dry contacts (NO, C, NC) for monitoring AC Fail and BAT Fail conditions
- Indicators: Red LED indicator for DC power, green LED indicator for AC power
- Set Voltage: 12VDC, 4A (switch CLOSED) / 24VDC, 3A (switch OPEN)

P-512243A Power Supply PCB Board

(mounted in metal enclosure)



Descriptions:

- A. Primary 120VAC input power
- B. LED Diagnostics (see below)
- C. Battery Fail and AC Fail contacts
- D. Backup battery connections
- E. DC output power (12VDC or 24VDC)
- F. 12VDC or 24VDC switch (DO NOT SWITCH WHILE POWER SUPPLY IS ENERGIZED!)

LED Diagnostics

Green (AC)	Red (DC)	Red (BAT)	Power Supply Status
ON	ON	ON	Normal operating condition.
OFF	ON	ON	Loss of AC. Stand-by battery is supplying power.
ON	OFF	OFF	No DC output, Battery Trouble.
OFF	OFF	OFF	Loss of AC. Discharged or no stand-by battery. No DC output.
ON	ON	OFF	Battery missing / Low.