



## 4202/4204 SERIES POWER SUPPLIES

**12 or 24 VDC  
Selectable Output**

**Maximum Output  
with Full Voltage**

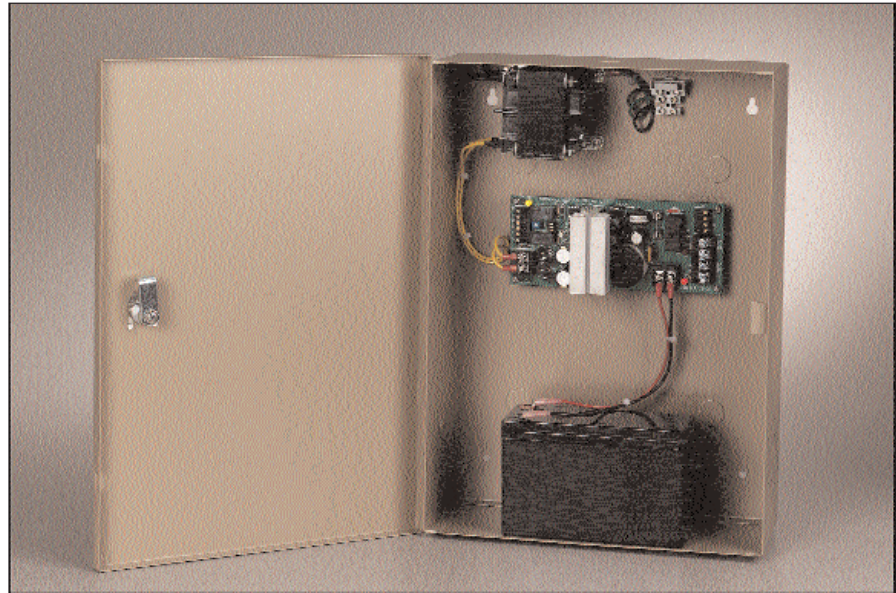
**FAR Switched &  
Continuous DC**

**Total Circuitry  
Protection**

**System Status  
LED Indication**

**Built-in Automatic  
Battery Charging**

**Remote Reset &  
Visual Indicators**



### **Reliable 12 or 24 VDC Output**

The 4202 and 4204 Power Supplies provide a field selectable 12 or 24 volt DC output. The required output voltage is accurately regulated to a fraction of a volt, even when operating under maximum and varying load conditions.

DC output is maintained at rated current, #4202-2 amp and #4204-4 amp power supplies, while continuously operating under maximum load. The extra-large heat sink assures a long operating life under extreme conditions.

### **Totally Protected Circuitry**

Both, 110 VAC input and DC output is fused to protect the system against overloads and shorts and the switching regulator prevents excessive current draw. The battery charging circuit and the fire alarm input are thermally protected.

### **Built-In Battery Back-Up Charger**

The battery charging voltage is automatically maintained in excess of the selected DC output voltage to extend battery back-up operational time. The adjustable trickle charge output will maintain the number of batteries required for emergency back-up.

### **Twin DC Powered Outputs**

One output supplies continuous DC power while a second output provides switched DC power through the built-in fire alarm relay.

### **Fail-Safe Fire Alarm Input**

Innovative design assures DC output cutoff by detecting ground faults in wiring to the fire panel. Unlike other supply designs that may fail to release the FAR if any wiring insulation is scraped in the connection to the fire panel.

### **LED Status Indicators**

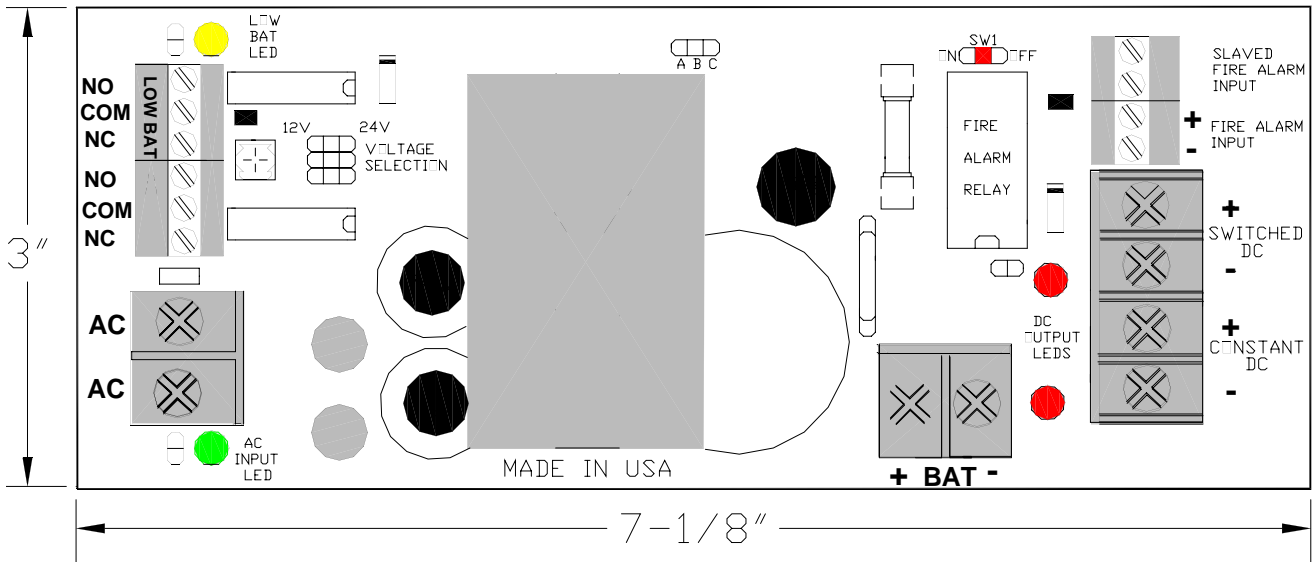
On-board LEDs provide visual indication of power supply operating conditions. A green LED is illuminated when AC power is present. The red LED is lit to indicate DC power at the output providing a quick determination of fire alarm input status. When the amber LED is lighted a low battery condition exists.

### **Auxiliary Alarm Outputs**

Alarm relay outputs are available to indicate loss of AC power and a low battery condition. The slave output from the fire alarm relay can be used to monitor the fire alarm input or to connect an endless number of power supplies to a single output on the building fire panel.

# 4200 SERIES 12/24 VDC POWER SUPPLIES

## 4200 SERIES BOARD



### Specifications:

#### Physical Size

- Board Only - 3" wide x 7" long x 2-3/8" high (including heat sink).
- Mounting - Standard attachment with stand-offs or 3" Snap-Track .
- Enclosure - 12-1/4" wide x 16" high x 4" deep with hinged cover.

#### Electrical

- AC Input - Fused 110 VAC to step-down transformer.
- #4202 - 2 amp Output @ 12 or 24 VDC (28 volt - 2.8 amp transformer)
- #4204 - 4 amp Output @ 12 or 24 VDC (28 volt - 4.6 amp transformer)
- DC Voltage Range - Field adjustable from .7 volts below to 3.7 volts above jumper selected DC output.
- DC Regulation - Accurately regulated to within 0.2% of voltage setting.
- DC Filter - Ripple almost nil, measuring only .002 volts @ 24 volts DC.
- Battery Charging - Adjustable trickle charge (factory set @ 300 mA for 12 volt battery back-up).

### Consistent Reliable Operation

The unique design of the power supplies assures reliable service in all situations. From the step-down transformers to the heat sink the components used exceed the specifications of the average low voltage supply to prevent overheating and extend the operating lifetime.

### Quick Easy Installation

Installation is fast, from mounting the enclosure to the connection of wiring. No need to add additional relays for alarm monitoring or the fire alarm interface.

The 110 VAC tie-in is quickly connected to the UL listed terminal strip with built-in fuse. Separate termination points are provided for connection of battery back-up and the main DC fused output.

Plug-on terminals speed wiring for alarm output and fire alarm connections.

Large tri-barrier terminal blocks shield board components near the low voltage input, output, and battery connections.

### Alarm Relay Outputs

The heavy duty fire alarm relay utilizes one set of the DPDT 16 amp contacts to switch the 12 or 24 VDC upon activation of the fire alarm. The other contacts can be used to monitor FAR status or control an endless number of power supplies from a single output on the fire panel.

**Optional Alarm Outputs:** (SPDT-2 amp) are available to signal loss of AC power. The status of the battery back-up power can also be monitored to activate an alarm during a low battery condition.

### Optional Features:

- xBAT- 2 ea. 7AH rechargeable batteries
- xFO - Power distribution board with eight (8) fused outputs
- xRO - Relay module with four (4) DPDT isolation relays

**Other options are available**  
**Refer to List Pricing Booklet**