



### I. Model Numbers

| Order Number | Model Number        | Max. System Current | Max. AC Input Current | Max. Battery Capacity |
|--------------|---------------------|---------------------|-----------------------|-----------------------|
| 02903        | CPS440D-UL/CSA      | 4/4A                | 3.0A                  | TBD                   |
| 02904        | CPS440DX-UL/CS<br>A | 4/4A                | 3.0A                  | TBD                   |

12/24 VDC (field selectable), 4/4 amp power supply for systems integration. Common access control and security system applications include powering door strikes, mag locks, card readers and other accessory devices.

### II. Installation Instructions

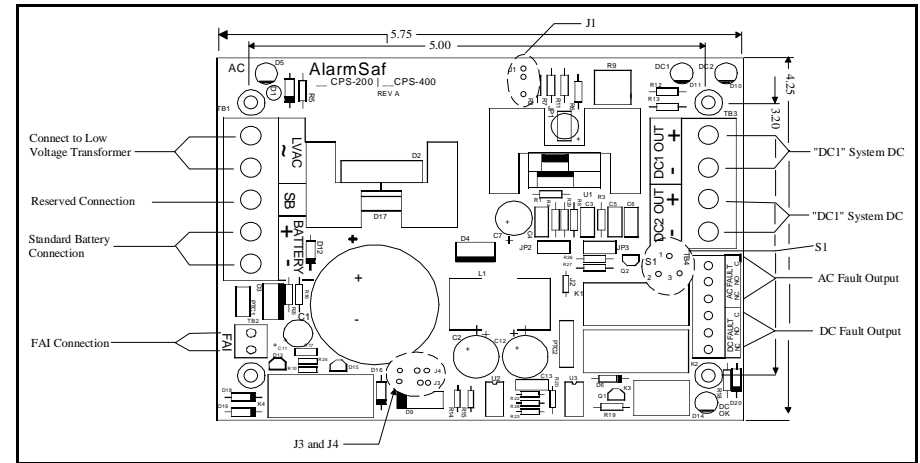
- Mount cabinet per mechanical dimensions and knockouts given in section VII.
- Connect 120VAC, 60 HZ., single phase to the black and white leads of the transformer in accordance with Article 725 of the National Electrical Code, Article 16 of the Canadian Electrical Code or other applicable codes.
- Low Voltage AC Input - Verify that both PCB's LVAC terminal connections are wired together. Connect upper 4 amp PCB to secondary winding of the transformer. Transformer output voltage is approximately 28VAC
- Configure each power supply output by positioning the appropriate jumpers;

| Output Voltage |     |     |
|----------------|-----|-----|
|                | 12V | 24V |
| J1             | ON  | OFF |
| J3             | ON  | OFF |

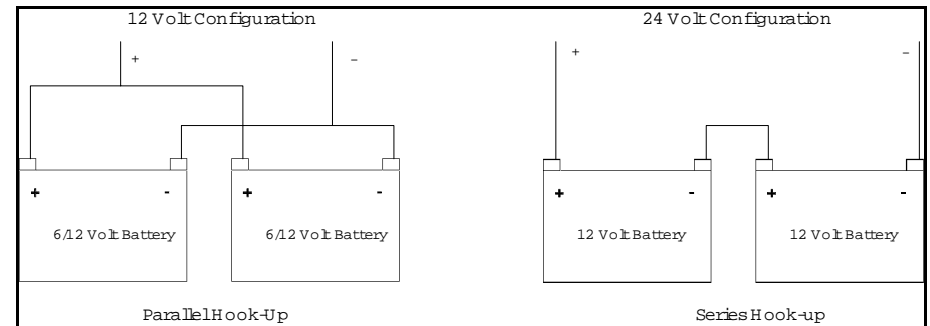
- Verify Output voltage by measuring output present at "DC1" output and "Battery " terminals of each power supply.
- If optional batteries are present, connect battery set to appropriate "Battery" terminals (see Fig. IV). CAUTION: Observe polarity; incorrect polarity may damage batteries. Recommended battery type - PowerSonic (PS Series) or YUASA (NP - Series) sealed lead acid/gel cell.
- Connect user system to "DC1" and/or FAI controlled "DC2" terminals. Caution: Observe polarity; incorrect polarity may damage user system. Refer to Section 1 for Maximum Allowable Current.
- FAI controlled Output (DC2) operation:
  - For power presence with a n/o circuit to FAI connector, set S1 to 1 & 3.
  - For power present on a n/c circuit to FAI, connector, set S1 to 1 & 2
- AC and DC fault outputs are reported via Form "C" relays;
  - "AC" fault relay maximum contact switching : 30VDC/5A
  - 'DC' fault relay maximum contact switching : 60VDC/30W
- Visual Indicators:
 

|                          |                                   |
|--------------------------|-----------------------------------|
| a. Green AC LED (D5)     | Low Voltage AC Presence           |
| b. Green DC OK LED (D17) | Regulator Voltage Output Presence |
| c. Red DC1 LED (D11)     | DC1 Output Voltage Presence       |
| d. Red DC2 LED (D10)     | DC2 Output Voltage Presence       |

### III. 4A/4A PCB Hookup Information



### IV. Optional Battery Configuration



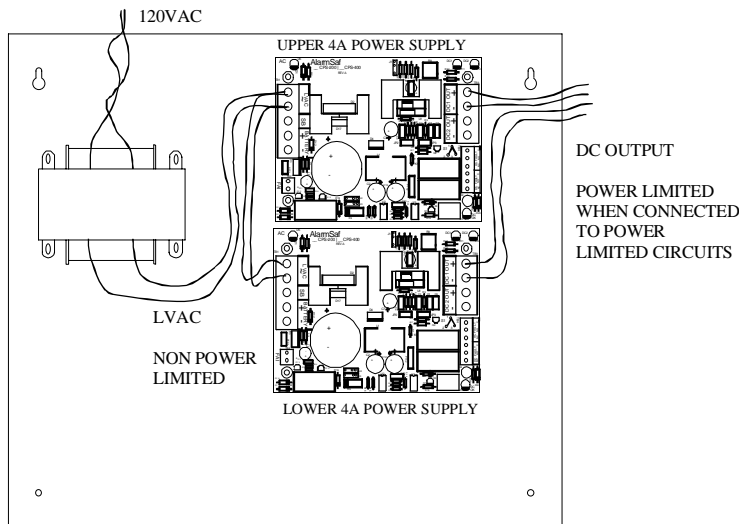


**ALARM SAF**

**V. Troubleshooting**

| Symptoms  | Possible Cause  | Correction  |
|---|---|---|
| Green AC LED not illuminated both 4A Power Supplies     | Loss of 120VAC<br>Loss of Low VAC   | Restore 120VAC<br>Replace Transformer   |
| Green AC LED not illuminated Lower 4A Power Supply only | Loss of Low VAC   | Wire not properly connected to upper 4A PCB   |
| Green DC LED not illuminated either 4A Power Supply     | Loss of input to switcher<br>Loss of switcher voltage   | Check transformer connection<br>Replace affected board  |
| Red DS1 LED not illuminated upper 4A Power Supply       | Short circuit in system wiring<br><br>Defective power supply  | Remove system load on affected board. Verify red LED illuminates. If it does, verify system wiring<br>Replace unit  |
| Red DS2 LED not illuminated lower 4A Power Supply       | Short circuit in system wiring<br><br>S1 improperly set<br>FAI not driven correctly<br>Defective power supply | Remove system load on affected board. Verify red LED is illuminated, check system wiring<br>Verify setting per Section II Line 8<br>Verify setting per Section II Line 8. Verify circuit driving FAI connector.<br>Replace unit |

**VI. WIRING DIAGRAM**



**Wiring Requirements**

Power limited and Nonpower -limited circuit wiring must remain separated by at least 0.25" within the cabinet. All power-limited circuit wiring and non power-limited wiring must enter and exit the cabinet through different knockouts.

**VII. MOUNTING AND KNOCKOUT POSITIONS**

