CX-PS150UL

POWER SUPPLY / CHARGER FOR ACCESS CONTROL AND EGRESS DOORS

INSTALLATION INSTRUCTIONS

This power supply should be installed in compliance with the National Electric Code (NFPA 70) CSAC22.1, Canadian Electric Code, Part 1 and all applicable Local Codes. Installation to be performed byqualifiedtechnical personnel.

1. DESCRIPTION

This is a power supply /charger that supplies a total of 1.7 amps nominal continuous supply at nominal 12/24VDC. There are 2 outputs for Magnetic Lock or Electric Strike each with over current protected by 2.5 amp P.T.C. The CX-PS150UL can accommodate 1 - 4Ah battery. UL listed with UL294 Edition 7th. ULC-S533.

2. GENERAL SPECIFICATIONS

1. Input : 60Hz 1.8A max,120VAC for CX-PS150
2. Output 1 Amp continuous supply current at Nominal 12/24VDC controlled output for Maglock and Electric Strike. Auxiliary Output 200mA at 12/24VDC for Access Device.
3. Built in Battery Charger of 500 mA for sealed lead acid or gel cell batteries.
4. Battery reversal protection.
5. Automatic switch over to stand-by battery upon AC failure.
6. LEDs display on enclosure door (LED Green for AC ,Led Blue for DC).
7. Enclosure dimension CX-PS150 8" x 9" x 3.5" (204mm x 231 x 89mm)

UL 294 7th Edition Access Control Performance Level:

Destructive Attack - I, Endurance - IV, Line Security – I, Standby Power – IV. Note: when using Standby battery of 12VDC (CX-PS150UL) Standby Power rating is – I.

3. BATTERY STAND-BY SPECIFICATION

Output:	Stand-by 4 hr	Alarm 5 min
12VDC /4AHBattery	500mA	1A
24VDC /4AHBattery	500mA	1A

4. INSTALLATION

This power supply should be installed in compliance with the National Electrical Code (NFPA 70), CSA ,C22.1, Canadian Electrical Code, Part 1 and all applicable Local Codes. Installation to be performed by suitably qualified technical personnel.

1. Mount the power supply in the desired location using the 4 mounting holes. NOTE: For use in Indoor Protected Area with Controlled Environment only. Do not Install Power Supply in Exterior Conditions.

2. With the Mains power disconnected, connect the leads to the AC Input Fuse Terminal Block, respecting the wiring phase and polarity :Ground/Earth=Green/Yellow, Neutral = White,(Blue), Live =Black (Brown). This equipment must be connected to the 120 Volt Mains via a readily dedicated accessible external disconnect device with maximum 15 Amp branch protection. Select the operating output DC voltage 12/24 with the jumper. Jumper OFF 12VDC, Jumper ON 24VDC. Measure the output voltage before connecting the MagLock or Electric Strike to confirm wright rate of the devices.

NOTE: Connect the Mains AC input 120/240VAC as shows in the installation diagram. Entry knocks out on the left of the enclosure. Keep low voltage wiring away from the AC wiring.

3. Switch ON the AC. Green LED will come ON indicating AC is present , Blue LED will come ON indicating the output voltage is active.

4. Connect the locking device: Magnetic Lock respecting the positive polarity to terminal + Mag Lock and negative polarity to terminal –COM. Electric Strike positive polarity to the terminal +STRIKE and the negative polarity to the terminal negative -COM.

Fire Alarm / Access Control Interface Connection

Normally Open (NO), Normally Closed (NC) input from the FACP or ACP are available to trigger PWX series operation. Connect the NO or NC from the FACP or ACP output to the FIRE/ACP TRIGGER terminals. Install the 2K2 Ohm end of line resistor (EOLR provided) at the FACP or ACCESS CONTROL PANEL as shown on the diagram. (Fig 1)

REX/Engineering Reset Input Connection

This option is available when the Jumper JL is removed (JL OFF). This will cause the PWX to latch upon receiving alarm from the FACP or ACP with this option in place and when the FIRE/ACP TRIGGER resets, PWX will only reset by activating the RESET/REX input. JL ON will cause the unit to follow the FIRE/ACP TIGGER. Install the 2.2K Ohms RESISTOR, Part provided at the Key Switch or Push Button to perform this operation. (Fig 1)

5. Secure enclosure with 4 screws or lock if is provided.

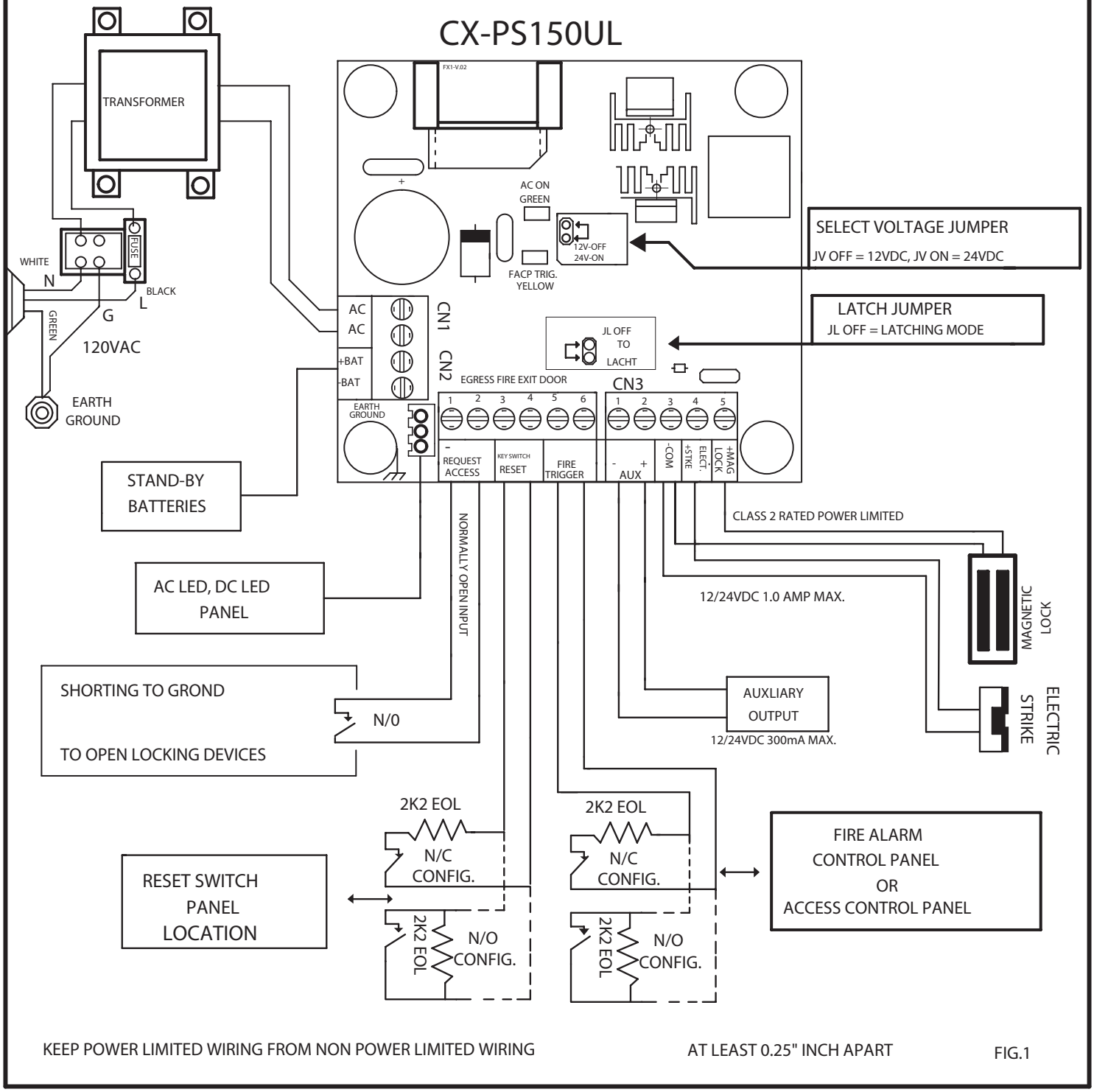
VOLTAGE SELECTION CHART:				
Output	**JV1 Position**	**Stand-by Load**	**Alarm Load**	**Battery (optional)**
12VDC	OFF	500mA	1AMP	12VDC
24VDC	ON	500mA	1AMP	24VDC

Terminal Block	**Connection Description**
ACAC	Low voltage input from Transformer
AUX+/-	Auxiliary 12/24 VDC out put to power Access Devices. Output not affected by Fire Alarm Triggering, Access Request, Reset Switch.
FIRETRIGGER	Supervised Fire Input with choice of N/O or N/C configuration.
RESET	Supervised input with choice of N/O or N/C configuration Reset Switch to reset to a normal operation when in Latch Mode or Fire Marshal Operation.
RequestAccess	Shorting this input will unlock the MagLockor ElectricStrike.
Battery +/-	Battery connections for Stand-by operation.

LED INDICATIONS:	
GREEN	LED ON AC ON, LED OFF LOSS OF AC
BLUE	LED ON DC OUTPUT ON, LED OFF NO OUTPUT
YELLOW	LED ON UNIT TRIGGRED BY FACP/ACCES CONTROL PANEL,

CONNECTIONS DIAGRAM

CX-PS150UL



KEEP POWER LIMITED WIRING FROM NON POWER LIMITED WIRING AT LEAST 0.25" INCH APART

FIG.1