

1. Introduction

These instructions describe how to safely install direct wiring for a Hardwired I/O Power Distribution Unit for the APC SYTF4 Step-down transformer.

Carefully read these instructions in their entirety before continuing.

WARNING!

Only qualified service personnel or electricians may perform the following procedure. The electrical terminals exposed in the following procedures will be energized if the UPS is on or plugged in. Make sure the UPS is both unplugged and off. Refer to Users Manual for instructions.

2. Required Materials and Tools

The following materials are not included, and must be supplied by the purchaser:

- **Electrical cable or wiring** - Cable or wiring must be of sufficient current carrying capacity for 50 Amps. 6 AWG is recommended. Refer to local electrical requirements for the appropriate wire size. The output should be wired into a 50 Amp, branch rated circuit breaker. Separate circuits can be run from the 50 Amp branch. Observe local wiring and NEC codes. The 120VAC output is rated for 42 Amps max.
- **For use with 208V Input only.**
- **Electrical conduit or tubing** – Conduit or tubing should meet all local requirements for electrical wiring. Use of flexible type conduit is recommended.
- **Cable or conduit clamps** – This UPS requires cable clamps for the input and output cords. Panel knockouts are sized to accept 1/2" clamps.

NOTE: *Wiring codes and requirements differ from area to area. Be sure to conform to all local electrical requirements when installing and wiring this UPS.*

The following tools are required for installation.

- Electrician's Pliers
- Flat Blade Screwdriver
- Phillips Screwdriver
- Wire Cutters

3. Installation

This section provides step-by-step instructions for connecting to the Hardwired Output for the APC SYTF4, Step Down Transformer.

NOTE: The examples used in this manual assume a typical installation. *Be sure to conform to all local electrical requirements.*

3.1 Remove Existing Panel

- Remove the 4 screws that retain the access panel at the rear of the unit as shown in Fig. 3.1. and set aside. These screws will be used later for re-installing the panel.

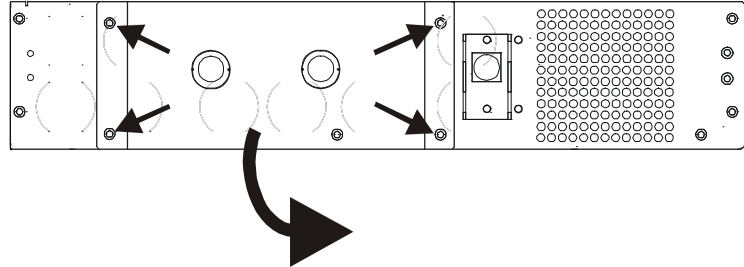


Figure 3.1 Removal of Panel

3.2 Install Conduit to Panel

- Remove the knockouts in the panel and install flexible type conduit to the panel and secure. Flexible type conduit is preferred, as it will make inspection of the wiring easier.
- Run the appropriate wires through the conduit so that connections can be made in the next step.

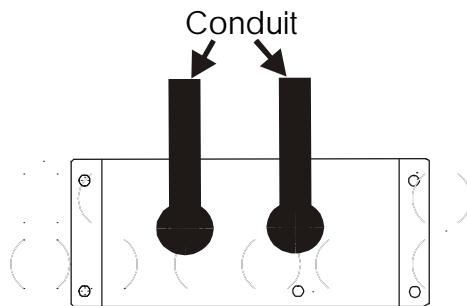


Figure 3.2 Installing Conduit to Panel

3.3 Make Electrical Connections to Unit

- Strip the wire conductors so that 3/8" of bare wire is showing. Connect the wire conductors to the terminal blocks as shown in Fig 3.3. Refer to Figure 3.4 for appropriate wiring points.
- Note: Leave enough slack in the conductors so that the panel can be moved out for inspection.

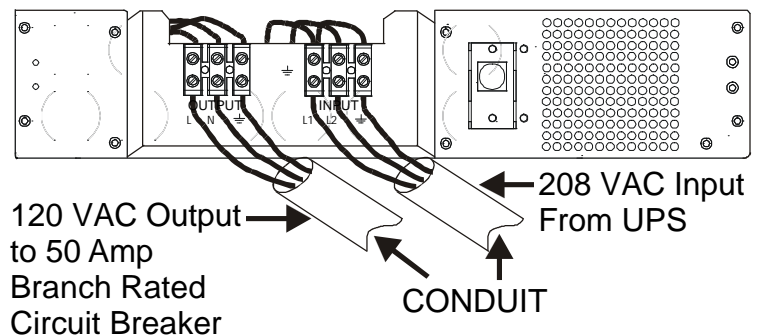


Figure 3.3 Remove Access Panels for Hard wire connections

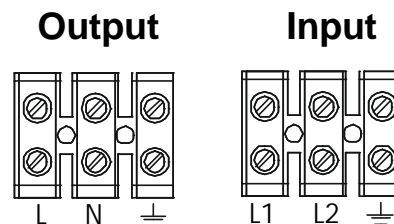


Figure 3.3 Wire connection orientation

3.4 Re-install Plate to unit for inspection

- Once the connections have been made to the terminal blocks, place the panel back up to the unit. Leave the panel unsecured so that the wiring can be inspected, see Fig. 3.4.
- Install the assembly back onto the PDU.

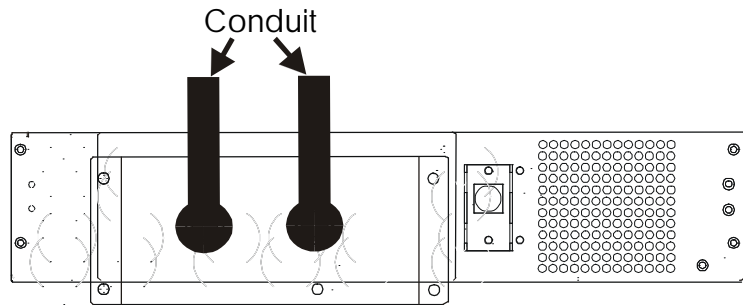


Figure 3.4 Re-install Plate to unit for inspection

3.5 Screw panel back in place.

- Once the wiring has been inspected, screw in the four screws removed in the first step and tighten.
- Installation is now complete.

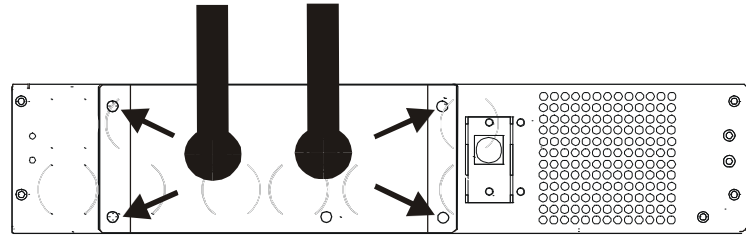


Figure 3.5 Screw panel back onto unit