Operation and Troubleshooting Quick Guide: Smart UPS Rack

Smart-UPS Rack (VA):

450, 500, 700, 750, 1000, 1400, 1500, 2000, 2200, 3000, 5000

STEP 1:

Connect the UPS's Internal Batteries (Figure 1):

NOTE: The Battery Disconnect/Connector may vary or be omitted on some models. Figure 1 illustrates some of the variations in connectors. Please follow the illustration which best resembles your UPS.

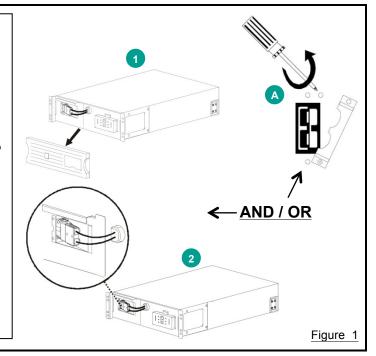
Procedure for Figure 1: (1, 2, 3)

- 1.1 Remove the Front Bezel
- 1.2 Locate the battery connector which will be adjacent to the battery compartment. Connect the Battery connector to the UPS connector. A snap will be felt as the connector partially engages the jack. A second snap will be felt as the connector securely seats in the Battery Jack
- **1.3** Replace the front Bezel.

AND / OR

Procedure for Figure 1: (A)

- 1.1 Locate the 'Battery Disconnect' or 'Battery Connector' on the rear panel of the UPS. It is typically a Yellow connector.
- 1.2 If the Battery Disconnect/Connector has a metal cover, remove the fastening screws and move the cover
- **1.3** Connect the battery by pressing the yellow connector into the Battery Jack. A snap will be felt as the connector partially engages the jack. A second snap will be felt as the connector securely seats in the Battery Jack.

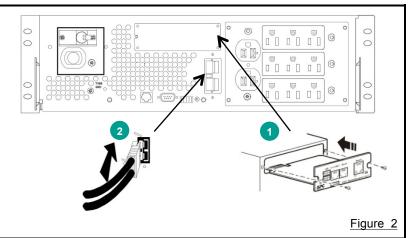


STEP 2:

Install UPS accessories (Figure 2):

NOTE: Ensure the UPS is turned off prior to installing any accessories. Some accessories are not provided with the UPS, please contact APC or CBM for the compatible accessories.

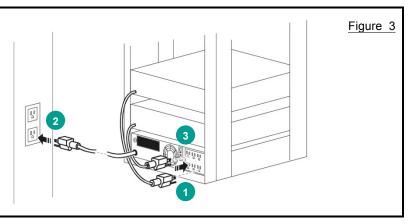
- 2.1 Install SmartSlot accessory (if applicable)
- 2.2 Install Step-down transformer (if applicable).
- 2.3 Install all external Battery Packs (if applicable). The External Battery Pack connector is located on the rear panel of the UPS, and is either BLUE/RED (48V) or GREY (24V) If the External Battery Pack Connector has a metal cover, remove the fastening screws and move the cover as in Figure 1.A. 2

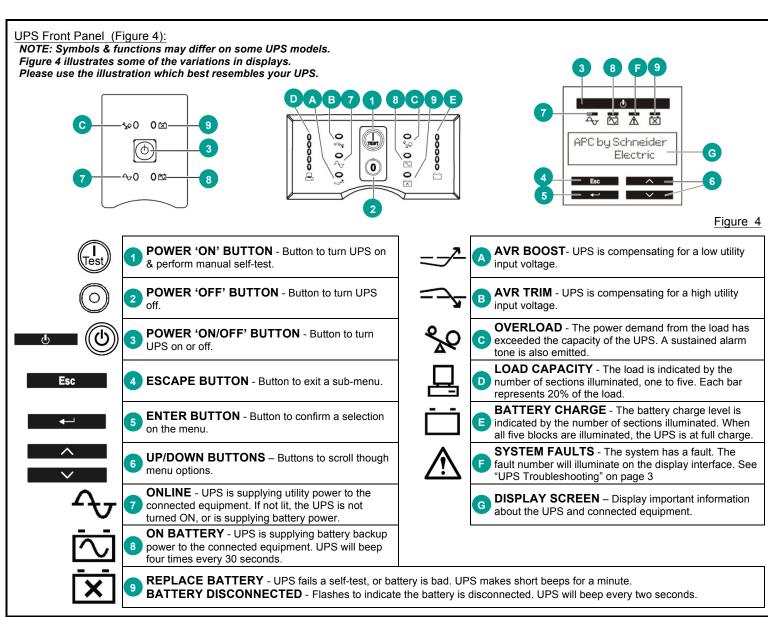


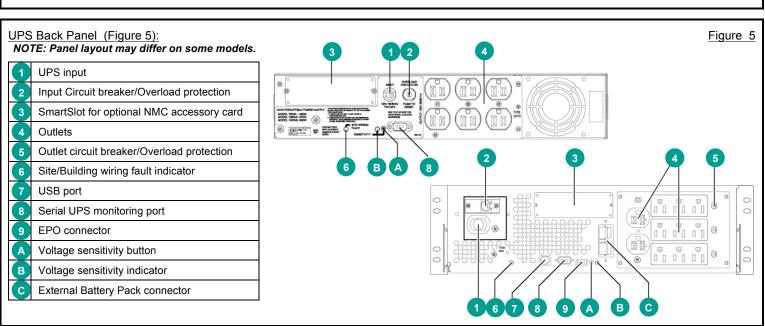
Connect wiring & charge UPS (Figure 3): NOTE: Ensure equipment is turned off.

3.1 Connect equipment to UPS 1

- 3.2 Connect UPS Power Cord to a suitable power receptacle 2
- 3.3 Set UPS circuit breakers to the 'ON' position (if applicable)
- **3.4** Power-up the UPS by pressing the (Test) button.
- 3.5 Wait for the Self-Test to complete, then Power-up equipment.
- 3.6 Allow UPS to charge batteries for 24 hours prior to operating on battery or performing additional Self-Test or Calibration tests.







UPS Troubleshooting: NOTE: Troubleshooting procedures may differ depending on UPS model. Problem: Solution: **UPS** will not turn on · ON button not pushed. Press the ON button once to power the UPS and the load. Check that the power cable from the UPS to the power supply is securely UPS not connected to AC power supply. connected at both ends. Reduce the load on the UPS by unplugging equipment and reset the circuit · UPS input circuit breaker tripped. breaker (on back of UPS) by pressing the plunger back in. Check the AC power supply to the UPS with a table lamp. If the light is very Very low or no utility voltage. dim, have the utility voltage checked. Battery not connected properly Confirm the battery connections. **UPS** will not turn off Do not attempt to use the UPS. Unplug the UPS and have it serviced · Internal UPS fault. immediately UPS operates on-battery although normal line voltage exists Reduce the load on the UPS by unplugging equipment and reset the circuit UPS's input circuit breaker tripped. breaker (on back of UPS) by pressing the plunger back in. Move the UPS to a different outlet on a different circuit. Test the input Very high, low, or distorted line voltage. Inexpensive fuel powered voltage with the utility voltage display. If acceptable to the load, reduce the generators can distort the voltage. UPS's sensitivity. See User's Manual for procedures. **UPS** beeps occasionally Normal UPS operation. None. The UPS is protecting the load. UPS does not provide expected backup time Charge the battery. Batteries require recharging after extended outages. Also, they wear faster when put into service often or when operated at The UPS's battery is weak due to recent outage or is near the end of its elevated temperatures. If the battery is near the end of its service life, service life consider replacing the battery even if the replace battery indicator is not yet Check the UPS's load display. Unplug less needed equipment, such as The UPS is overloaded. printers. Front panel indicators flash sequentially The UPS has been shut down by remote control None. The UPS will restart automatically when utility power returns. All indicators are lit and UPS emits a constant beeping Do not attempt to use the UPS. Turn the UPS off and have it serviced · Internal UPS fault. immediately. All indicators are off and UPS is plugged into wall outlet The UPS is shut down and the battery is discharged from an extended None. The UPS will return to normal operation when the power is restored and the battery has a sufficient charge outage. The replace battery light is lit

For the complete User Manual or comprehensive troubleshooting, please visit the following websites:

APC: http://www.apc.com or coastTec: http://www.coastTec.com

Do another self-test to see if it clears.

Confirm the battery connections

Weak batteries

Replacement batteries not connected properly.