

coastTec

Operation & Troubleshooting Quick Guide

Smart-UPS Tower (VA):

750, 1000, 1500, 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 a couple variations. Please follow the illustration which best resembles your UPS.

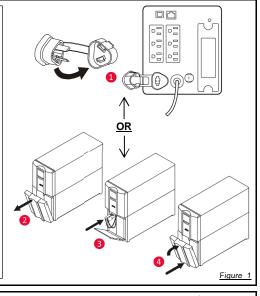
Procedure 1 (top diagram - 750, 1000, 1500):

- Locate the 'Battery Disconnect' or 'Battery Connector' on the rear panel of the UPS.
- 1.2 Connect the battery by pressing the black connector into the Battery Jack 1

OR

Procedure 2 (bottom diagram - 2200, 3000, 5000):

- 1.1 Remove the lower front cover by first grasping the top edges and then by tilting it forward an out of the battery connectors are inaccessible, you may swing the metal battery door open by removing the two fastening screws.
- 1.2 Connect the battery by pressing the Anderson connector into the plug at the top of the battery compartment.
 - A snap will be felt as the connector engages the jack 3
- Close the metal battery door (replace the screws) and reinstall the lower front cover 4



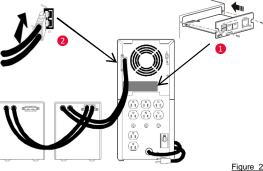
STEP 2:

Install UPS accessories (Figure 2):

NOTE: Ensure the UPS is turned off prior to installing any additional accessories. Please contact APC or coastTec for more information on compatible parts.

- 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 (48V) or GREY (24V).

If the Connector is obstructed by a metal cover, remove the fastening screws and cover 2



STEP 3:

Connect wiring & charge UPS (Figure 3):

NOTE: Ensure equipment is turned off.

- 3.1 Connect equipment to the UPS (computer, network switches etc.) 1
- 3.2 Connect the UPS's Power Cord to a suitable power
- 3.3 Set UPS circuit breakers to the 'ON' position (if applicable)
- 3.4 Turn on the UPS by pressing the power button:





- 3.5 Wait for the UPS's Self-Test to complete, then power-up any
- 3.6 Allow UPS to charge batteries for 24 hours prior to operating on battery or performing additional Self-Test or Calibration tests.

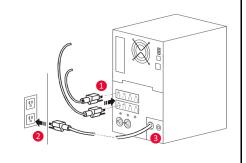
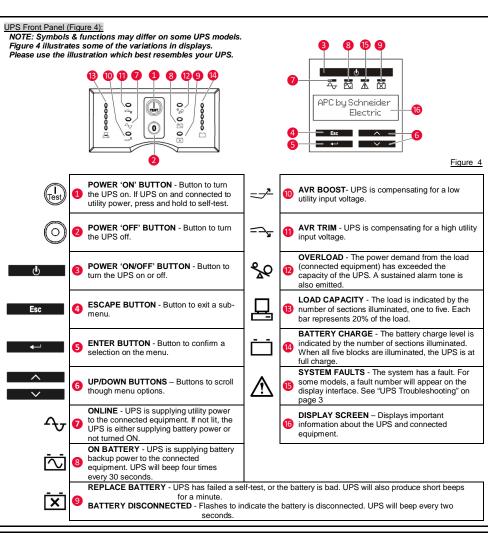


Figure 3

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UPS Back Panel (Figure 5):

NOTE: Layout may differ on some models.

- USB port
- 2 UPS monitoring port (RJ45 connector)
- 3 TVSS GND (Chassis ground connection screw)
- SmartSlot for optional NMC accessory card
- 6 Circuit breaker/Overload protection
- 6 UPS Power Cord
- Power Outlets
- 8 EPO connector (Emergency Power Off)
- Battery Connector / Battery Disconnect

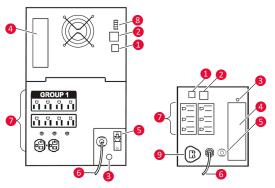


Figure 5

UPS Troubleshooting:

NOTE: Troubleshooting procedures may differ depending on UPS model.



Problem:	Solution:
	UPS will not turn on
Power/Test button not pushed.	Press the Power/Test button once to power the UPS and the load.
UPS not connected to AC power supply.	Check that the power cable from the UPS to the wall outlet is securely connected.
UPS input circuit breaker tripped.	Reduce the load on the UPS by unplugging equipment. If available, reset the circuit breaker (on back of UPS): for the plunger-type, press the plunger back in. For the toggle-type, flip the switch to the 'ON' position.
Very low or no utility voltage.	Check the AC power supply to the UPS with a multimeter or table lamp. If the meter reads a voltage below the UPS's acceptable operating range or the light bulb is dimly lit, have the utility voltage checked.
Battery not connected properly.	Confirm the external Battery Connector / Disconnect, or internal connections. A connector may appear to be connected, additional insertion force may be required to firmly seat any loose connections.
	UPS will not turn off
Internal UPS fault.	Do not attempt to use the UPS. Unplug the UPS and have it serviced immediately.
UPS operates on-ba	attery although normal line voltage exists
UPS's input circuit breaker tripped.	Reduce the load on the UPS by unplugging equipment and reset the circuit breaker (on the back of UPS): for the plunger-type, press the plunger back in. For the toggle-type, flip the switch to the 'ON' position.
Very high, low, or distorted utility line voltage. Generator sets with poor line regulation.	Move the UPS to a different outlet on a different circuit. Test the input voltage with the utility voltage display. If acceptable to the load, reduce the UPS's sensitivity. See User's Manual for procedures.
	PS beeps occasionally
Normal UPS operation.	None. The UPS is protecting the load.
UPS does no	ot provide expected backup time
	Allow the UPS time to charge the battery, batteries require recharging
The UPS's battery is weak due to a recent outage or is near the end of its service life.	after extended outages. Also, batteries wear faster when put into service often or when operated at elevated temperatures. If the battery is near the end of its service life, consider replacing the battery even if the 'replace battery' indicator is not yet lit.
The UPS is overloaded.	Check the UPS's load display. Unplug less needed equipment, such as printers or reconsider the sizing requirements of the setup – a larger VA capable UPS might be required.
	el 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 (or Fault LED	& message) and UPS emits a constant beeping sound
Internal UPS fault.	Do not attempt to use the UPS. Turn the UPS off and have it serviced immediately.
	off and UPS is plugged into wall outlet
 The UPS is shut down and the batteries are discharged from an extended outage. 	None. The UPS will return to normal operation when the power is restored and the battery has a sufficient charge.
The	replace battery light is lit
Weak batteries.	Perform an additional self-test to see if the warning clears.
Replacement batteries not connected properly.	Confirm the battery connections.
The display h	has a Site Warning Fault message
Wiring faults detected include missing ground,	If the UPS indicates a site wiring fault, have a qualified electrician inspect
hot-neutral (polarity reversal), and overload neutral circuit.	the building wiring.

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

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

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