



by Schneider Electric

# User Manual Easy UPS

## BVX Series 650VA

## Safety and General Information

### SAVE THESE INSTRUCTIONS

This manual contains important instructions that should be followed during installation and maintenance of the UPS and batteries.

Inspect the package contents upon receipt. Notify the carrier and dealer if there is any damages.

- This UPS is intended for indoor use only.
- Mains socket outlet that supplies the UPS shall be installed near the UPS and shall be easily accessible.
- UPS must be connected to an earthed mains socket outlet.
- Connect the Easy UPS power cable directly to a wall outlet. Do not use surge protectors or extension cords.

### **⚠ CAUTION**

#### **RISK OF HYDROGEN SULPHIDE GAS AND EXCESSIVE SMOKE**

- Replace the battery at least every 5 years or at the end of its service life, whichever is earlier.
- Replace the battery immediately when the UPS indicates battery replacement is necessary.
- Replace batteries with the same number and type of batteries as originally installed in the equipment.
- Replace the battery immediately when the UPS indicates a battery over-temperature condition, or when there is evidence of electrolyte leakage. Power off the UPS, unplug it from the AC input, and disconnect the batteries.  
Do not operate the UPS until the batteries have been replaced.

#### **Failure to follow these instructions can result in minor or moderate injury and equipment damage**

- Servicing of batteries should be performed or supervised by personnel knowledgeable about batteries and required precautions.
- When replacing battery the UPS must be OFF, and its AC inlet unplugged.
- Do not dispose of batteries in a fire. The batteries may explode.
- Do not open or mutilate batteries. They contain an electrolyte that is toxic and harmful to the skin and eyes.
- A battery can present a risk of electrical shock and high short circuit current.
- Failed batteries can reach temperatures that exceed the burn thresholds for touchable surfaces.
- The following precautions should be observed when working on batteries.
  - a. Remove watches, rings or other metal objects.
  - b. Use tools with insulated handles.
  - c. Wear rubber gloves and boots.
  - d. Do not lay tools or metal parts on top of batteries.
  - e. Disconnect the charging source prior to connecting or disconnecting battery terminals.
  - f. Determine if battery is inadvertently grounded. If inadvertently grounded, remove source from ground. Contact with any part of a grounded battery can result in electrical shock. The likelihood of such shock can be reduced if such grounds are removed during installation and maintenance.

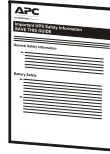
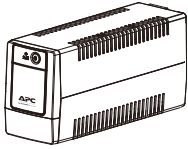
The battery in the Easy UPS is not user-replaceable. Contact SEIT Technical Support for a list of authorized service centers near you.

For the recycling battery information, go to [apc.com/ph](http://apc.com/ph).

## Radio Frequency Warning

This is a category C2 UPS product. In a residential environment, this product may cause radio interference, in which case the user may be required to take additional measures.

# Package Contents



## Place and Power On

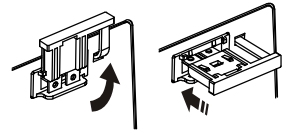
1 Place the Easy UPS to avoid:

- Direct sunlight
- Excessive heat
- Excessive moisture



For operating as expected, place the unit on the floor.

2 Connect the battery by pulling the battery handle up, and then pushing it into the unit.



3 Replace PC's input cord with a jumper cable and use PC's input cord to connect the UPS.

4 Press the POWER ON/OFF button to turn on the unit.

The green **Power on** indicator confirms that the Easy UPS is on and ready to provide protection.

The Easy UPS should charge for at least 6 hours to ensure sufficient runtime.

The unit gets charged whenever it is connected to AC power preferably above 160 Vac, whether the unit is turned ON or OFF.

## Features

**A** POWER ON/OFF button

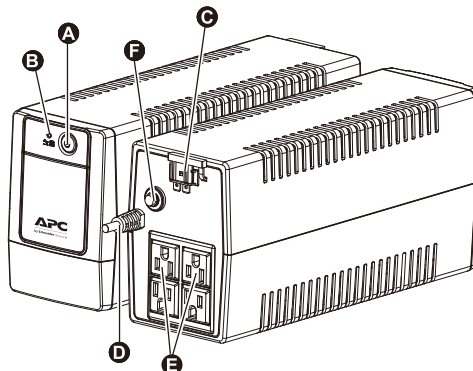
**B** LED status indicator

**C** Battery connector

**D** AC power input

**E** Battery backup and surge protected outlets

**F** Circuit breaker



# Specifications

<b>Input</b>	Voltage / Frequency	230 Vac / 50 Hz or 60 Hz
	Brownout Transfer / Over-voltage Transfer	140 Vac, typical / 300 Vac, typical
<b>Output</b>	Capacity (total)	650 VA / 360 W
	Voltage On Battery	230 Vac
	Frequency - On Battery	50 Hz / 60 Hz $\pm$ 1Hz
	Transfer Time	4-6ms typical, 10ms max.
<b>Protection</b>	Overload	Circuit breaker 5 A, 250 Vac
<b>Battery</b>	Type (maintenance-free)	12 V, 7 Ah x 1 lead acid
	Average Life	The battery typically lasts for three to five years. Environmental factors impact battery life. Elevated temperatures, high humidity, poor quality mains power, and frequent short duration discharges will shorten battery life.
	Typical Recharge Time	6-8 Hours
<b>Physical</b>	Net Weight	4.2 kg
	Dimensions (H x W x D)	14.2 cm x 10.1 cm x 30 cm
<b>Temperature</b>	Operating	0 °C to 40 °C
<b>International Protection Code</b>		IP20

# Status Indicators

LED	Audible Alarm	Condition
<b>On</b>	Off	<b>On-line</b> - The Easy UPS is supplying AC power to the connected equipment
	Constant Tone	<b>On Line Overload</b> - The power being used by the connected equipment has exceeded the capacity of the unit. Disconnect non-essential equipment connected to the UPS.
	Constant beeping	<b>Over-temperature Audible Alarm</b> -The unit is overheating and will shut down if the temperature is not lowered. Disconnect non-essential equipment connected to the UPS.
<b>On (Off during 4 beeps)</b>	4 beeps repeated every 30 seconds	<b>On-Battery</b> - The Easy UPS is supplying battery power.
<b>Flashing</b>	Rapid Beeping (every 1/2 second)	<b>Low Battery Audible Alarm</b> - The Easy UPS has 2 minutes of runtime remaining.
	Constant tone	<b>Bad Battery Detected</b> - The battery needs to be charged, or is at end of life. (See <i>Battery Replacement</i> .)
<b>Off</b>	Short beep every 4 seconds	<b>Low Battery Shutdown</b> - During On Battery operation the battery power was almost completely exhausted, and the Easy UPS is waiting for AC power to return to normal.
	Constant Tone	<b>On Battery Overload</b> - The connected equipment requires more power than provided by the Easy UPS battery. Unplug devices one at a time to remove overload. If the detected problem is not corrected, contact SEIT Technical Support.
	Constant Tone	<b>Charger Fault Detected</b> - Easy UPS has detected an internal problem, and is no longer powering the load. Contact SEIT Technical Support.
	Long beep every 4 seconds	<b>Over-temperature Detected</b> - The Easy UPS has overheated and has shut down. Unplug connected devices one at a time or wait for a few hours for system to cool down.

# Operational Features

## Automatic Voltage Regulation (AVR)

Automatic Voltage Regulation boosts/trimms the AC voltage when it drops/exceeds expected levels. This allows the equipment plugged into the unit to operate during low/high voltage conditions, conserving the battery power in the event of a power cut. The Easy UPS will switch to battery power if the input voltage level becomes too low/high for the Automatic Voltage Regulation to compensate.

# Warranty

## Register your product on-line. <http://warranty.apc.com>

The standard warranty is two (2) years from the date of purchase. SEIT standard procedure is to replace the original unit with a factory reconditioned unit. Customers who must have the original unit back due to the assignment of asset tags and set depreciation schedules must declare such a need at first contact with an SEIT Technical Support representative. SEIT will ship the replacement unit once the defective unit has been received by the repair department, or cross-ship upon the receipt of a valid credit card number. The customer pays for shipping the unit to SEIT. SEIT pays ground freight transportation costs to ship the replacement unit to the customer.

# Troubleshooting and Service

1. Contact Schneider Electric IT (SEIT) Customer Support through the APC by Schneider Electric Web site, [www.apc.com](http://www.apc.com).
  - a. Note the model number and serial number and the date of purchase. The model and serial numbers are located on the rear panel of the unit and are available through the LCD display on select models.
  - b. Call SEIT Customer Support and a technician will attempt to solve the problem over the phone. If it is not possible, the technician will issue a Returned Material Authorization Number (RMA#).
  - c. If the unit is under warranty, the repairs are free.
  - d. Service procedures and returns may vary internationally. Refer to the APC by Schneider Electric Web site for country specific instructions.
2. Prepare to troubleshoot the problem over the phone. If this is not successful, and the unit is still under warranty, the SEIT Technical Support Representative will provide all necessary information to return the unit for replacement.

# APC by Schneider Electric IT Customer Support Worldwide

For country specific customer support, go to the APC by Schneider Electric Web site, [www.apc.com](http://www.apc.com).