

Installation, Maintenance and Warranty Flat Plate Battery

Important Safety Information

Read the instructions carefully to become familiar with the equipment before trying to install, operate, service or maintain it. The following special messages may appear throughout this manual or on the equipment to warn of potential hazards or to call attention to information that clarifies or simplifies a procedure.



The addition of this symbol to a Danger or Warning safety label indicates that an electrical hazard exists which will result in personal injury if the instructions are not followed.



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

WARNING

WARNING indicates a potentially hazardous situation which, if not avoided, **can result** in death or serious injury.

CAUTION

CAUTION indicates a potentially hazardous situation which, if not avoided, **can result** in minor or moderate injury.

NOTICE

NOTICE used to address practices not related to physical injury. The safety alert symbol is not used with this signal word.

Safety and General Information

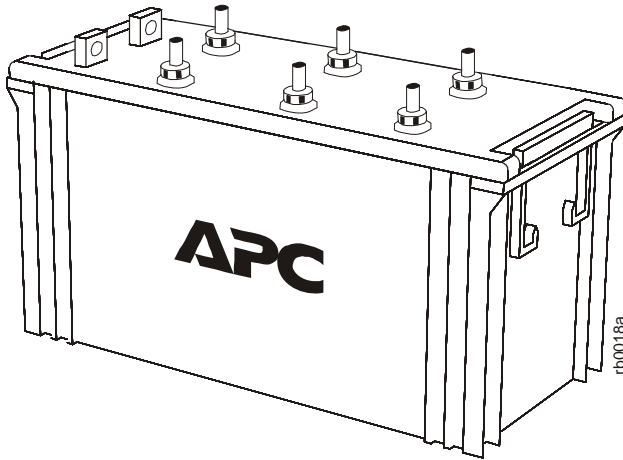
Inspect the package contents upon receipt. Notify the carrier and dealer if there is any damage.

Battery safety

- Before installing or replacing the batteries, remove jewelry such as wristwatches and rings. High short circuit current through conductive materials could cause severe burns.
- Do not dispose of batteries in a fire. The batteries may explode.
- Do not open or mutilate batteries. Released electrolyte is harmful to the skin and eyes, and may be toxic.
- Do not short the terminals of the battery. This may cause battery to explode or cause fire or both.

Overview

The APC by Schneider Electric flat plate flooded batteries have been optimized for maximum performance when used with APC Home UPS.



APC Customer Support India

Internet	http://www.apc.com/support
Toll Free BSNL network	1 800 425 4272
E-mail	indiainfo@apc.com

Features

- Flat plate construction for exceptional reliability, steady output and longer life.
- Aqua trap vent plugs helps to eliminate acid fumes.
- Sturdy PPCP container cover design which allows significantly higher electrolyte level above plates assuring minimum maintenance.
- Float type level indicator for easier maintenance.
- Customized battery design suitable for Indian operating conditions.
- Heavy duty construction for extra durability
- Sturdy carrying handles for moving battery easily.

APCBAT120AHFL and APCBAT150AHFL batteries

- 24 months flat and additional 6 months pro-rata warranty
- 4 free preventive maintenance.

APCBAT145AHFL battery

- 18 months flat and additional 12 months pro-rata warranty
- 3 free preventive maintenance.

Specifications

Battery Type	Capacity at 20 hr	Charge rate	Battery Weight (Approximate)
APCBAT120AHFL	120 Ah	6 A	41.5 kg
APCBAT145AHFL	145 Ah	7.25 A	44 kg
APCBAT150AHFL	150 Ah	7.5 A	52.5 kg

Installation

For 12 V requirement use one battery and for 24 V requirement use two batteries. For higher load requirement series - parallel connection may be used. **Do not connect more than 3 batteries in parallel.**

Maximize Battery Life

Battery life is directly related to several factors, most notably ambient temperature, number of discharge cycles and "depth" of those discharge cycles. Other factors like age, maintenance of voltage levels and recharging practices also play a part. This information applies to all flat plate and tubular batteries and will help you get the most runtime possible from your Home UPS:

- Place your Home UPS in "AWAY" mode when you leave for extended periods (holidays, etc.) to prevent unnecessary discharges of your battery during power cuts.
- Turn off unnecessary lights, fans, etc., during power cuts to help minimize the depth of discharge of your battery - maximizing battery life and reducing recharge times.
- Keep your battery cool! Keep it away from heat sources like direct sunlight or air conditioning exhausts.
- Avoid keeping it in areas where temperatures are above 25°C to 30°C.
- Batteries should be recharged immediately after each discharge and should never be allowed to stay in a discharged state.
- Water levels should always be properly maintained.
- Make sure the CHARGER OUTPUT switch (in the rear panel of the inverter) is set to the correct Ah rating for your specific battery. This prevents over or undercharging.
- Batteries stored for long periods will eventually lose their charge, especially in higher ambient temperatures.
- Always maintain a full charge on your battery, even when not in use.

Maintenance

Follow the instructions for maximum battery performance:

- Charge the battery promptly after use. If the batteries are left in a discharged state, the plates will get sulphated.
- Keep the battery and terminals clean and dry. Apply petroleum jelly to avoid corrosion of terminals.
- Ensure good ventilation in the room so that explosive Hydrogen gas is effectively removed.
- A minimum of 10 hours should be available for recharging after a prolonged use.
- Adjust the specific gravity to 1.240 - 1.250 and the acid level to the maximum mark level.
- Fix the aqua trap micro porous vent plugs firmly.
- Ensure proper cables are used to carry the current required.
- All connections shall be tight.
- Recommended float voltage:
 - For applications with infrequent power outages: 13.8 V float.
 - For applications with frequent power outages: 14.4 V for first 4 hours and then change to 13.8 V.
- Equalizing charge to be given to equalize the cell gravities at regular intervals, preferably once a month at 0.1 C rate and continue the charging for 3-4 hours after gassing stage is crossed.
- Topping up to be done at regular intervals with battery grade distilled water only.

Warranty Conditions

Customer must adhere to the following operating conditions to claim warranty:

- APC's warranty on APCBAT120AHFL and APCBAT150AHFL batteries, covers defects in materials and workmanship for a period of 24 month + 6* month warranty (*where additional 6 month is pro-rata warranty) from the date of installation or from the date of purchase by the customer. Consequential liabilities will not be retained.
- APC's warranty on APCBAT145AHFL battery, covers defects in materials and workmanship for a period of 18 month + 12* month warranty (*where additional 12 month is pro-rata warranty) from the date of installation or from the date of purchase by the customer. Consequential liabilities will not be retained.
- The batteries should be serviced only by the APC Authorized Service Provider (ASP).
- The liability under this warranty ceases on the transfer of the battery to any party other than original buyer or used for any application other than UPS and on the expiry of the warranty period as mentioned above.
- If the containers, covers or parts are damaged due to negligent maintenance, or tampering or if these are destroyed in an accident such as fire, wreckage or explosion the warranty becomes void.
- If the defects are due to a faulty or spurious UPS system, negligent maintenance, incorrect filling and charging or improper handling and servicing of the battery then the warranty is nullified.
- The battery grade distilled water for topping up should conform to IS 1069.
- The right to determine whether or not a battery needs repair or replacement rests with the company.
- In case the battery is replaced, the defective battery being replaced will become the property of the company and no scrap rebate will be given for it. The warranty period on the battery being repaired or replaced shall

commence from the date of sale of the original battery as stated in the original warranty card and not from the day it is repaired/replaced.

- The customer copy of the service coupon on the warranty card must be filled in regularly as a proof of regular maintenance.
- Adjudication and settlement of claim may take some time as the battery has to be tested for the reported failure.
- Octroi duty or local taxes if any becomes leviable for the battery under repair or replacement and shall be borne by the customer. Recharging is not covered under the purview of this warranty and will be charged extra.
- In case of requirement of any assistance, customers are requested to contact the APC Contact Center.
- Customers are deemed to have read, understood and agreed to these conditions at the time of purchase.
- The warranty is issued subject to the jurisdiction of civil courts at Bangalore.
- The Serial No. on the battery should match with Serial No. on the warranty card in order to accept claim for adjudication.
- For sale and installation in India only.
- The responsibility of battery maintenance (scheduled preventive maintenance) lies with the customer. In the event of missing the scheduled maintenance, the battery warranty will cease.

Safety

- Drops of acid on clothing: Treat with soap and water. Rinse it with large quantity of water before drying.
- Drops of acid in eyes: Rinse continuously for about 5 minutes in clean running water and then immediately consult a doctor.

Important Notification

The notification by the Government of India with regard to the handling of batteries states the following:

1. It shall be the responsibility of the customer to ensure that the used battery is not disposed of in any manner other than depositing with the dealer, manufacturer, re-conditioner or at the designated collection centers.
2. Do not discard the battery in a trash can or give/sell to an unauthorized person.
3. It is mandatory for our authorized dealers to accept a used battery and provide a corresponding rebate on purchase of a new battery.
4. Note: Violations of these guidelines may lead to legal Action/Prosecution by the Government Authorities.



⚠ WARNING

HAZARD OF EXPLOSION

Do not dispose of the batteries in a fire. The batteries may explode.
Do not open or mutilate the batteries. Released electrolyte may be toxic and it is harmful to the skin and eyes.

Failure to follow these instructions can result in serious injury



Service Coupons

Customer Copy

APC Product Serial No.: _____
Customer Name: _____
Customer Address: _____
Phone No.: _____

6th Paid Service (on or before 15 months of installation)

Date: _____
Battery Model No.: _____
Battery Serial No.: _____
Customer Signature: _____

5th Paid Service (on or before 12 months of installation)

Date: _____
Battery Model No.: _____
Battery Serial No.: _____
Customer Signature: _____

4th Free Service (on or before 9 months of installation)

Date: _____
Battery Model No.: _____
Battery Serial No.: _____
Customer Signature: _____

3rd Free Service (on or before 6 months of installation)

Date: _____
Battery Model No.: _____
Battery Serial No.: _____
Customer Signature: _____

2nd Free Service (on or before 3 months of installation)

Date: _____
Battery Model No.: _____
Battery Serial No.: _____
Customer Signature: _____

1st Free Service (to be done at the time of installation)

Date: _____
Battery Model No.: _____
Battery Serial No.: _____
Customer Signature: _____

su0734c



Service Coupons

Authorized Service Provider Copy

APC Product Serial No.: _____

Customer Name: _____

Customer Address: _____

Phone No.: _____

6th Paid Service (on or before 15 months of installation)

Date: _____

Battery Model No.: _____

Battery Serial No.: _____

Customer Signature: _____

5th Paid Service (on or before 12 months of installation)

Date: _____

Battery Model No.: _____

Battery Serial No.: _____

Customer Signature: _____

4th Free Service (on or before 9 months of installation)

Date: _____

Battery Model No.: _____

Battery Serial No.: _____

Customer Signature: _____

3rd Free Service (on or before 6 months of installation)

Date: _____

Battery Model No.: _____

Battery Serial No.: _____

Customer Signature: _____

2nd Free Service (on or before 3 months of installation)

Date: _____

Battery Model No.: _____

Battery Serial No.: _____

Customer Signature: _____

1st Free Service (to be done at the time of installation)

Date: _____

Battery Model No.: _____

Battery Serial No.: _____

Customer Signature: _____

su0734d



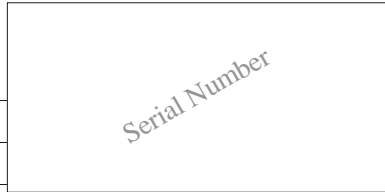
by Schneider Electric

Warranty Registration for Flat Plate Battery

Customer Copy

(To be filled by the Dealer at the time of sale and retained by customer)

1. Customer's Name & Address: _____



2. UPS Type and Model: _____

3. Date of sale: _____

4. Date of Installation of Battery (If different from date of sale): _____

5. Dealer's Name, Address, Signature & Seal: _____

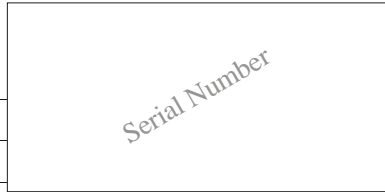


by Schneider Electric

Warranty Registration for Flat Plate Battery

(To be filled by the Dealer at the time of sale and posted back to APC in enclosed envelope)

1. Customer's Name & Address: _____



2. UPS Type and Model: _____

3. Date of sale: _____

4. Date of Installation of Battery (If different from date of sale): _____

5. Dealer's Name, Address, Signature & Seal: _____

su0733b

