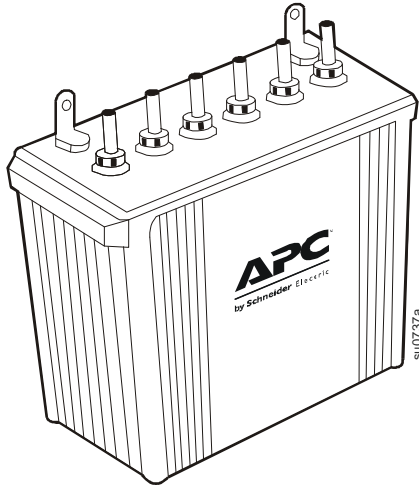




by Schneider Electric

# Installation, Maintenance and Warranty Tubular Battery Series



## Overview

The APC™ by Schneider Electric flooded tubular batteries provide maximum performance when used with an APC by Schneider Electric product.

## General Information

The battery can be used for standby power applications with APC by Schneider Electric Home UPS and APC by Schneider Electric UPS.

APC by Schneider Electric provides four free preventive maintenance visits and 48 months\* warranty for tall tubular battery and 42 months\* warranty for short tubular and short tall tubular battery.

## APC Customer Support India

Internet	<a href="http://www.apc.com/support">http://www.apc.com/support</a>
Toll Free	1 800 425 4272
E-mail	<a href="mailto:indiainfo@apc.com">indiainfo@apc.com</a>

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## Battery Features

- **Micro porous vent plug:** This feature eliminates acid spray and allows gases to escape safely.
- **Long life:** The battery has a longer service life than a flat plate battery when used for similar applications.
- **Factory charged:** The battery is charged at the factory for maximum runtime capacity. The fully charged battery is ready for operation immediately upon installation. The battery must be installed within 6 months from the date of manufacture.

## Maximize Battery Life

Environmental factors impact battery life. Elevated ambient temperatures, poor quality utility power, frequent short duration discharges and insufficient recharge will shorten battery life.

- The battery is intended for indoor use only. Do not operate or store the battery in direct sunlight, in contact with fluids, or where there is excessive heat and moisture.
- Operating and storage temperatures should not exceed 25°C.
- Batteries stored for long periods will eventually lose their charge, especially in conditions with high temperatures. Recharge the stored battery once every 3 months.
- Battery electrolyte levels should be properly maintained.
- Batteries should be fully recharged immediately after each discharge to maximize battery life.
- Change the status of the home UPS to **AWAY** mode when you leave for extended periods (holidays etc.), to prevent unnecessary discharges of the battery during power outages.
- Turn off nonessential lights, fans, and computers during power outages to minimize the rate of discharge on the battery.
- Ensure the charger output switch on the rear panel of the inverter/UPS, is set to the correct Ah rating for the battery. This prevents over or undercharging.

# Specifications

Battery Type	Capacity at 20 hr	Charge rate in Amps	Battery Weight (Approximate)
APCBAT135AHSTT	135 Ah	15 A	48.5 kg
APCBAT150AHST	150 Ah	15 A	61.5 kg
APCBAT150AHTT	150 Ah	15 A	59.5 kg

Use one battery for installations that require 12 V.

Use two batteries for installations that require 24 V.

## Maintenance

Follow the instructions for maximum battery performance:

- Fully charge the battery after each use. Sulphate build-up occurs on the battery plates if the battery is left in a discharged state.
- Keep the battery clean and dry. Apply petroleum jelly on terminals to prevent corrosion.
- Recharge the battery for a minimum of 10 hours after prolonged use.
- Ensure proper cables are used to carry the required current.
- Tighten all connections.
- As a safety measure, ensure good ventilation in the room so that explosive Hydrogen gas is effectively removed.
- When necessary adjust the specific gravity of the battery electrolyte: 1.240 to 1.250 and fill the electrolyte cells to the full mark level with battery grade distilled water only.
- Securely close the aqua trap micro porous vent plugs.
- 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.
- Perform an equalizing charge to the batteries 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.
- Use only battery grade distilled water to top up the battery at regular intervals.
- Failure to perform regular preventive maintenance may result in low battery performance and ultimately shorten the battery life. This will affect the warranty. See “Warranty Conditions”.

## 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 authorised 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.



## Warranty Conditions

The warranty is null and void if after shipment it is determined that the battery has been modified, reworked, repaired or not properly stored/maintained in a manner specified by the manufacturer. The warranty is not applicable in cases where the battery is undersized for capacity, over cycled for the application, abused, physically damaged and/or used in extreme temperatures. It may be noted that this battery has a finite life which is governed by charge/discharge cycles and temperatures. These cycles may get consumed within the warranty period (due to excessive use/abuse) and the right to extend warranty on such a battery will rest with APC by Schneider Electric.

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

- The warranty on this battery covers defects in materials and workmanship for a period of 48 months\* for tall tubular battery and 42 months\* for short tubular and short tall tubular battery from the date of installation or from the date of purchase by the customer. Consequential liabilities will not be retained.
- The warranty period shall be adjusted based on the actual operating conditions such as temperature and frequency of discharge as per the specifications on the battery data sheet. The warranty period will reduce

by 50% for every 8°C increase in the operating temperature above 25°C (base temperature).

- Use the correct capacity charger corresponding to the battery capacity for charging.
- Charge the battery after every discharge.
- Warranty is null and void if the defects are due to faulty electrical systems, incorrect charging, improper maintenance, incorrect electrolyte filling or improper handling of the battery by unauthorized personnel.
- The battery grade distilled water for topping up should conform to IS 1069.
- Physical abnormality of the battery, container and cover breakage are not considered as manufacturing defects and therefore do not come under the scope of the warranty.
- In case of replacement, the defective battery becomes the property of the company and scarp rebate will not be provided.
- In case of a warranty claim wherein the battery model is phased out, APC by Schneider Electric reserves the right to replace the battery with another model of equivalent capacity to meet the requirements.
- Parallel strings of batteries are not recommended unless specifically agreed upon. Incidents of fire due to loose connections, external short circuits, use of non-standard interlinking cables, etc., are not covered under the purview of the warranty.
- The company reserves the right to determine whether the battery needs to be repaired or replaced.
- Adjudication and settlement of the warranty claim may take time as the battery has to be tested for the reported failure.
- Octroi duty and/or local taxes, if any, on the battery, either for replacement or repair, has to be borne by the customer. Recharging is not covered under the purview of this warranty and will be charged.
- 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 in Bangalore.
- The serial number on the battery should match with the serial number on the warranty card in order to accept claim for adjudication.
- Representative from APC by Schneider Electric must be given access to the battery and its maintenance records, during regular business hours for the warranty to be respected.
- Warranty is null and void if the battery is not used with APC by Schneider Electric UPS and Inverter.

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*\* 36 months standard replacement warranty and 12 months pro-rata warranty for tall tubular battery and 30 months standard replacement warranty and 12 months pro-rata warranty for short tubular and short tall tubular battery where the company will replace the failed unit at a differential cost between new battery being supplied to the customer and residual value of his failed battery. The residual value of failed battery is subject to valuation by authorized APC by Schneider Electric service representative.*



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## Service Coupons Customer Copy

APC Product Serial No.: \_\_\_\_\_  
Customer Name: \_\_\_\_\_  
Customer Address: \_\_\_\_\_  
Phone No.: \_\_\_\_\_

6<sup>th</sup> Paid Service (on or before 30 months of installation)

Date: \_\_\_\_\_  
Battery Model No.: \_\_\_\_\_  
Battery Serial No.: \_\_\_\_\_  
Customer Signature: \_\_\_\_\_

5<sup>th</sup> Paid Service (on or before 24 months of installation)

Date: \_\_\_\_\_  
Battery Model No.: \_\_\_\_\_  
Battery Serial No.: \_\_\_\_\_  
Customer Signature: \_\_\_\_\_

4<sup>th</sup> Free Service (on or before 18 months of installation)

Date: \_\_\_\_\_  
Battery Model No.: \_\_\_\_\_  
Battery Serial No.: \_\_\_\_\_  
Customer Signature: \_\_\_\_\_

3<sup>rd</sup> Free Service (on or before 12 months of installation)

Date: \_\_\_\_\_  
Battery Model No.: \_\_\_\_\_  
Battery Serial No.: \_\_\_\_\_  
Customer Signature: \_\_\_\_\_

2<sup>nd</sup> Free Service (on or before 6 months of installation)

Date: \_\_\_\_\_  
Battery Model No.: \_\_\_\_\_  
Battery Serial No.: \_\_\_\_\_  
Customer Signature: \_\_\_\_\_

1<sup>st</sup> Free Service (to be done at the time of installation)

Date: \_\_\_\_\_  
Battery Model No.: \_\_\_\_\_  
Battery Serial No.: \_\_\_\_\_  
Customer Signature: \_\_\_\_\_

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## Service Coupons

Authorized Service Provider Copy

APC Product Serial No.: \_\_\_\_\_  
Customer Name: \_\_\_\_\_  
Customer Address: \_\_\_\_\_  
Phone No.: \_\_\_\_\_

6<sup>th</sup> Paid Service (on or before 30 months of installation)

Date: \_\_\_\_\_  
Battery Model No.: \_\_\_\_\_  
Battery Serial No.: \_\_\_\_\_  
Customer Signature: \_\_\_\_\_

5<sup>th</sup> Paid Service (on or before 24 months of installation)

Date: \_\_\_\_\_  
Battery Model No.: \_\_\_\_\_  
Battery Serial No.: \_\_\_\_\_  
Customer Signature: \_\_\_\_\_

4<sup>th</sup> Free Service (on or before 18 months of installation)

Date: \_\_\_\_\_  
Battery Model No.: \_\_\_\_\_  
Battery Serial No.: \_\_\_\_\_  
Customer Signature: \_\_\_\_\_

3<sup>rd</sup> Free Service (on or before 12 months of installation)

Date: \_\_\_\_\_  
Battery Model No.: \_\_\_\_\_  
Battery Serial No.: \_\_\_\_\_  
Customer Signature: \_\_\_\_\_

2<sup>nd</sup> Free Service (on or before 6 months of installation)

Date: \_\_\_\_\_  
Battery Model No.: \_\_\_\_\_  
Battery Serial No.: \_\_\_\_\_  
Customer Signature: \_\_\_\_\_

1<sup>st</sup> Free Service (to be done at the time of installation)

Date: \_\_\_\_\_  
Battery Model No.: \_\_\_\_\_  
Battery Serial No.: \_\_\_\_\_  
Customer Signature: \_\_\_\_\_

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## Warranty Registration for Tubular Battery

### Customer Copy

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

1. Customer's Name & Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Serial Number

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: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



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## Warranty Registration for Tubular 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: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Serial Number

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: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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