

Maintenance Best Practices



1. CONTROL ENVIRONMENT

- Keep the UPS in an environmentally controlled, clean and well ventilated area
- Prevent overheating and ensure optimally efficient operation of the UPS by removing any dust accumulation from the UPS on a regular basis, especially from fan openings

2. PERIODICALLY SELF-TEST

- Schedule periodic self-tests of the UPS, to include both electronics and a 10-second battery testing (*check the user manual for available options specific to your unit*)

3. MAINTAIN A CHARGE

- The UPS automatically charges internal batteries when connected to utility power, however, if in storage, the UPS batteries should be charged every 90 days for 8 hours minimum

4. DEEP-CYCLE ANNUALLY

- Schedule a deep-cycle battery test annually where they are depleted to low-battery cut-off, (LBCO). *Ensure there are no critical applications running prior to testing to prevent data loss.*
- Immediately order replacement batteries anytime a UPS self-test identifies weak or dead internal batteries.

5. KEEP CURRENT

- Visit the Minuteman Resource Library for any firmware or software updates:
 - UPS firmware updates are listed under the UPS model
 - SentryHD software and SNMP card firmware updates are listed under Network Accessories

BATTERY BASICS:

1. LIFE EXPECTANCY = 3-5 YEARS

- Average VRLA (Valve-regulated, lead-acid) batteries will last 3-5 years

2. TEMPERATURE & HUMIDITY = 77°F

- Optimal temperature for maximum life is 77°F (25°C), with an operating temperature range between 32°F – 104°F (0°C – 40°C). Operating outside this range will adversely affect the performance and longevity of the batteries.

3. USE & STORAGE = 8 HOURS EVERY 90 DAYS + DEEP-CYCLE

- If stored, batteries should be charged 8 hours minimum every 90 days. Repeated, short-cycle use of VRLA batteries reduces overall performance. If operated in an environment experiencing recurring, short-term utility outages, run a deep-cycle battery test on an annual basis to help maintain maximum runtime performance.

