

# Smart-UPS On-Line Lithium-ion FAQ

APC certainty with Total Cost of Ownership in mind



## How long do Smart-UPS™ Lithium-ion batteries last?

Lithium-ion batteries used in Smart-UPS can survive up to 1,500 charge cycles, 8 to 10 years. Sealed Valve Regulated Lead-Acid batteries (VRLA) cycle life is up to 200 cycles, 3 to 5 years.

Cycle life is the number of times a battery can be fully charged and discharged within the 0 to 40°C (32 to 104°F) temperature range before it needs to be replaced. When the charge capacity is reduced to 60 to 80%, the battery becomes non-usable for UPS application and should be replaced.

## Are Lithium-ion and VRLA batteries the same weight?

Lithium-ion batteries are up to one-third lighter than VRLA.

## Can I replace the Smart-UPS battery while the UPS is operational?

The Smart-UPS single phase UPS Lithium-ion batteries are designed to be hot swappable. Internal batteries can be replaced while the UPS is operating. A battery pack may be installed in an operating UPS system with other parallel battery packs. Paralleling takes relative load between the batteries into consideration. The battery pack should not be removed from an operating UPS system if the UPS is discharging the battery.

## How long is the Smart-UPS warranty?

There is a 5-year warranty for both the electronics and the batteries.

## Why use APC Lithium-ion UPS?

APC™ by Schneider Electric has been using Lithium-ion batteries in UPS portfolios since 2013. We put performance first:

- UL Certified: Cell Certification UL1642/ IEC62133/UN38.2, Functional Certification UL1973 (Sec 5.7 & 5.8)
- Battery Management System monitoring at the cell level that manages voltage
- Overvoltage and overtemperature protection for individual cells
- Overload and short circuit protection at pack level
- Thermal runaway protection at pack level

[apc.com/lithium-ion](https://apc.com/lithium-ion)

Life Is On

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by Schneider Electric



### Are there any internal battery inside the UPS?

The UPS does not have an internal battery. The batteries are in external battery pack, which also allows the ability to extend the runtime of your system. Up to 10 external battery packs can be added.

### Will I need to replace my Lithium-ion batteries under normal use?

The lifecycle of the Lithium-ion Smart UPS is 8 to 10 years. At this time the batteries as well as the natural degradation of the electronic components will be at the end of their optimized life expectancy. We recommended you to purchase a new UPS.

### Can I replace the VRLA batteries on my existing UPS with Lithium-ion batteries?

No. Batteries for Smart-UPS with Lithium-ion are not compatible with Smart-UPS with VRLA batteries.

### Can I use my existing APC Network Management Card (NMC) with Smart-UPS Lithium-ion?

Yes. The AP9630, AP9631 and AP9635 are all compatible with this UPS. The "NC" suffix model offers a pre-installed AP9631 card.

### Is Smart-UPS with Lithium-ion right for me?

Yes! Smart-UPS with Lithium-ion has a longer lifecycle and is lighter than VLRA. Save on Total Cost of Ownership up to 58% by minimizing UPS maintenance and providing remote UPS management across distributed environments.

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