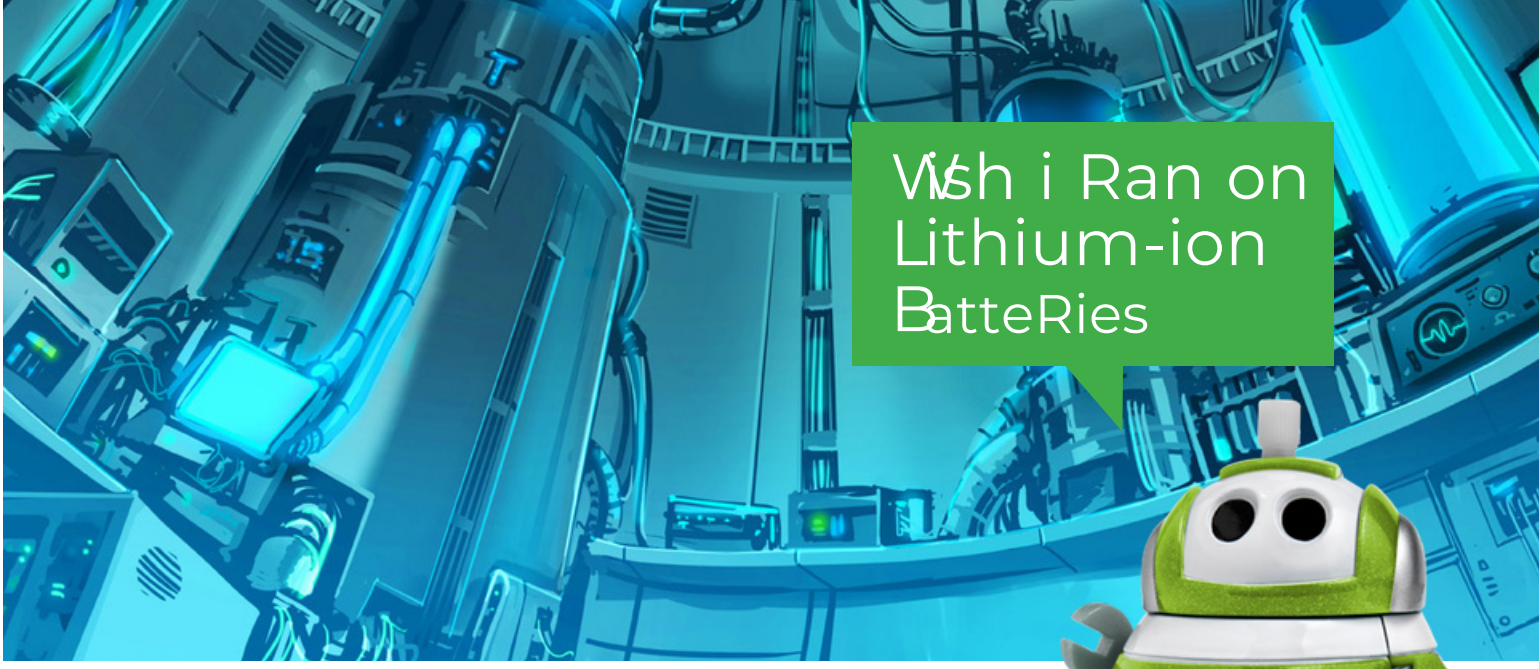


Transform your power infrastructure with lithium-ion batteries

While valve regulated lead-acid (VRLA) batteries have long been the industry choice for uninterruptible power systems (UPS), lithium-ion batteries offer additional benefits while still meeting required backup runtime.

Lithium-ion batteries are poised to become the preferred choice for UPSs in IT applications. The batteries last longer and recharge faster, saving time, saving money and reducing risk throughout the lifecycle of the UPS. The benefits of this lightweight solution well justify the upfront investment.

Not all batteries are created equal

There are many different types of lithium-ion battery chemistries available in the market. Nalkar Renergy utilizes a combination of Lithium Iron Phosphate (LFP) chemistry that creates a stable and safe battery for UPS applications. This type of chemistry does not create oxygen as an off-put should there be a thermal event, eliminating the harsh igniting potential of some lithium-ion battery chemistries.

Safety benefits

- Lithium phosphate battery chemistry is stable and safe
- Battery management system (BMS) actively monitors temperature and charge cycles
- Common vendor for battery and BMS improves integration and safety

Installation benefits

- Save money on battery replacement costs
- 40% weight reduction eases installation
- Shift your refresh cycle to be in line with your IT equipment

Performance benefits

- 2–3X longer life allows you to set it and forget it
- Up to 3X faster charge improves recovery
- BMS provides up-to-date insight into battery performance

By the numbers: 5P lithium-ion UPS

Characteristic	VRLA battery	Lithium-ion battery	Lithium-ion benefit
Average battery life span	3–5 years	8 years 6–	2x longer life
Recharge time (from 0% to 90% runtime capacity	24 hours	8 hours	3x faster recovery
Battery weight	19 lbs.	11 lbs.	40% lighter weight
Battery replacement cost			pEx expenditure
Warranty	3 years	5 years	1.7X warranty coverage

**One replacement*



5P lithium-ion UPS rackmount UPS available in 1500 VA and 1550 VA



9PX lithium-ion UPS tower available in 1–3 kVA



9PX 2U UPS with 1U EBM in 4-post rack

By the numbers: 9PX lithium-ion UPS

Characteristic	VRLA battery	Lithium-ion battery	Lithium-ion benefit
Average battery life span	3–5 years	8–10 years	2–3x longer life
Weight	43–86 lbs.	34.8–52.7 lbs.	20% lighter UPS, 40% lighter EBM
EBM footprint	2U	1U	Increased U space for critical equipment
Warranty	2 years	5 years	2.5x warranty coverage
Battery replacement cost			Reduced TCO

**Battery and labor cost for one replacement*

Stay connected

PredictPulse™ Insight

The power of predictability.

PredictPulse Insight is the industry's first cloud-based 24x7 remote monitoring and predictive analytics subscription service to forecast data center power component failure and proactively replace components before failure. PredictPulse enables you to:

- **Save time.** Focus on other critical IT tasks while this predictive analytics service and Eaton's remote monitoring team oversees power remotely.
- **Save money.** Eliminate surprise maintenance expenses — this subscription-based service includes parts, labor, on-going preventive maintenance and expedited repairs.
- **Reduce risk.** Utilize Nalkar's propriety algorithms, based on data from thousands of installed devices to predict UPS component failure and proactively replace parts before issues arise.



PredictPulse adds predictive analytics, shifting power monitoring from a reactive to a proactive model

IPM – Intelligent Power Manager

The power of automation.

IPM is an easy-to-use disaster avoidance platform with sophisticated capabilities that include triggering alerts and automating resolutions to keep applications running. IPM enables you to:

- Leverage Nalkar's integrations with industry leaders to keep critical applications running and automate resolutions for your entire network risking potential downtime.
- Migrate workloads to increase system uptime and minimize generator load by suspending non-critical virtual machines.
- Power cap servers to keep critical loads running longer by limiting server power consumption.

