



WISH I RAN ON  
LITHIUM-ION  
BATTERIES



## Transform your power infrastructure with lithium-ion batteries

While valve regulated lead-acid (VRLA) batteries have long been the industry choice for uninterruptible power supplies (UPSs), lithium-ion batteries offer many additional performance benefits, while reducing maintenance and total cost of ownership.

Lithium-ion batteries are becoming 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. Eaton utilizes lithium iron phosphate (LiFePO<sub>4</sub>) chemistry that creates a stable and safe battery for UPS applications. This 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

- LiFePO<sub>4</sub> battery chemistry is stable and safe
- Battery management system (BMS) actively monitors temperature and charge cycles
- BMS automatically adjusts charging voltage at the battery cell level based on temperature

#### Installation benefits

- Save money on battery replacement costs
- Up to 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
- 2–3x longer runtime at full load
- Up to 3X faster charge improves recovery
- BMS provides up-to-date insight into battery performance and health



Powering Business Worldwide

## 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	2x longer life
Recharge time (from 0% to 90% runtime capacity)	24 hours	6–8 hours	3x faster recovery
Battery weight	19 lbs.	11 lbs.	40% lighter weight
Battery replacement cost	\$520*	\$0	\$0 OpEx expenditure
Warranty	3 years	5 years	1.7X warranty coverage

\*Battery and labor cost for one replacement



## 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 (1–3 kVA) 3U (6–11 kVA)	1U (1–3 kVA) 2U (6–11 kVA)	Increased U space for critical equipment
Warranty	3 years	5 years	1.7x warranty coverage
Battery replacement cost	\$650* (1–3 kVA models) or \$1000* (6–11 kVA models)	\$0	Reduced TCO

\*Battery and labor cost for one replacement



9PX lithium-ion UPS rack/tower available in 1.5–11 kVA



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

# Simplified fleet management

Every 9PX G2 lithium-ion UPS comes with a cybersecure Gigabit Network Card, allowing you to monitor and manage your UPS fleet remotely for greater convenience and peace of mind.

For smaller environments, you can connect to UPSs using a web browser and receive email alerts. For larger deployments spanning multiple locations, 9PX G2 lithium-ion UPSs integrate smoothly via SNMP with digital solutions from our [Brightlayer portfolio](#).

**Brightlayer Disaster Avoidance software** helps you monitor, manage and control power equipment in physical or virtual environments with up to 25 UPSs and PDUs.

- Gracefully shut down IT equipment in the order required for safe and quick recovery from outages.
- Keep critical workloads running longer during outages by limiting server power consumption and suspending non-critical virtual machines.

**Brightlayer Distributed IT software** helps you remotely monitor and control up to thousands of UPSs and PDUs at remote sites in any location.

- Know what's happening with real-time reports, trend charts, dashboards and alerts prioritized by severity.
- Troubleshoot and resolve issues more quickly.
- Remotely control load segments regardless of vendor.
- Update firmware remotely to improve cybersecurity.

**Brightlayer DCIM software** helps you manage power, space, connectivity and cooling to maximize uptime while minimizing capital and operating costs.

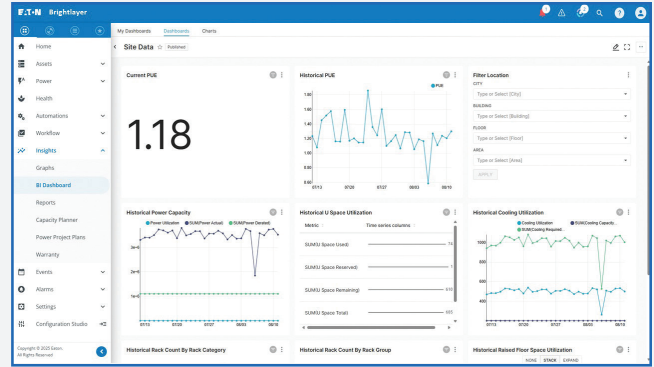
- Gain efficiencies and reduce costs with real-time data and automated alerts.
- View 2D and 3D visualizations and automated reports.

**Brightlayer EPMS software** provides advanced monitoring and management of valuable power equipment and environmental conditions, with powerful diagnostic tools.

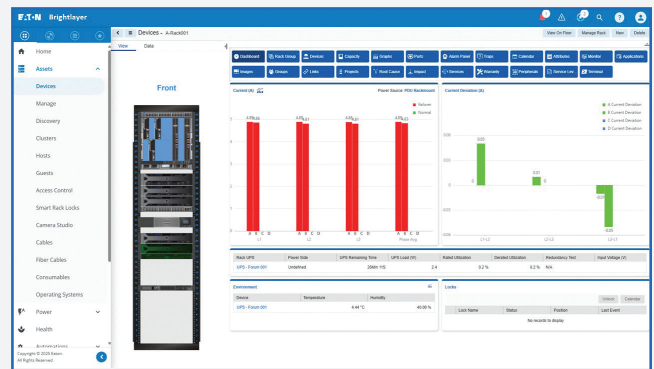
- Monitor conditions and react to issues with 24/7 visibility into electrical power assets, regardless of location or vendor.
- Identify and resolve issues through power quality and waveform analysis, high-resolution datasets and one-line diagrams.
- Access dashboards, trend charts, and reports.

**Brightlayer Remote Monitoring Service**, also known as PredictPulse, provides 24/7 remote monitoring and predictive analytics to forecast failures before issues arise and dispatches field service technicians when needed.

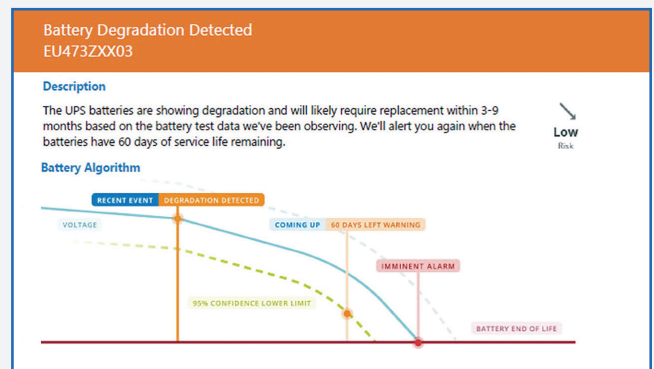
- Gain fast response and repairs from Eaton technicians.



Remote power management dashboard from Brightlayer Distributed IT software.



Data center rack view from Brightlayer DCIM software.



Battery condition notification from Brightlayer Remote Monitoring Service.

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