

# Thoughtful Design Makes Vertiv™ Liebert® GXT5 Lithium-Ion 5-10KVA UPS the Total Package



A Vertiv Application Brief

## Overview

Data center and IT teams are presiding over fast-growing core-to-edge networks. Adopting lithium-ion uninterruptible power supplies (UPSs) enables these teams to ensure power continuity at all the sites they manage.

Vertiv™ Liebert® GXT5 Lithium-Ion 5-10kVA UPS provides these teams with multiple advantages, including reliable performance, longer runtime, and a lower total cost of ownership. In addition, Liebert GXT5 saves space in tight operational environments and provides an integrated maintenance bypass that eliminates the need to take the UPS offline for servicing.

*Data centers are a hub of innovation. From the way facilities are designed to the IT, power, and cooling devices that populate white space, everything has been architected to deliver exceptional performance.*

Thus, technologies that can provide leap-ahead advantages over their counterparts are rapidly adopted by innovators – and eventually become mainstream. This process can happen faster than expected when external events change the game for all players in the market.

Lithium-ion batteries are one such technology. They offer considerable advantages over valve-regulated lead-acid (VRLA) batteries but accounted for just [15 percent](#) of the data center battery market in 2020. However, surging customer demand for digital products and services has propelled organizations to consume greater data center capacity and stand up more edge sites near users. At the same time, continued technology innovation and a lower total cost of ownership (TCO) have made lithium-ion batteries an attractive option to hyperscalers, managed service providers, and organizational IT teams alike. As a result, analysts now expect that 38.5 percent of data centers will use these batteries by 2025.

It is against this industry backdrop that Vertiv is releasing its newest rack- or tower-convertible, double-conversion online UPS, the Vertiv Liebert® GXT5 Lithium-Ion 5 to 10kVA UPS. Vertiv's new high-capacity UPS combines the benefits of lithium-ion battery technology with other thoughtful design innovations that make the solution ideal for use at both data centers and edge sites. These benefits include:

- **Harnessing a high-performance battery technology:** IT, facilities, and procurement managers know that lithium-ion batteries have a longer life, lasting up to three times longer than VRLA batteries. They also offer 20 to 50 percent more runtime than VRLA batteries. As a result, they're an ideal choice for mission-critical cloud and edge applications, providing IT teams with more time to troubleshoot infrastructure issues or gracefully shut them down. Lithium-ion batteries also perform better than VRLA batteries at higher temperatures, meaning that IT professionals can place them in environments with relatively poor temperature control, such as in network rooms and closets or manufacturing and industrial facilities, where VRLA battery performance would quickly degrade.
- **Gaining scalable runtime:** Liebert GXT5 Lithium-Ion 5 to 10kVA UPS can be connected to up to eight 1U external battery cabinets (EBCs), to provide scalable runtime. Liebert GXT5 Lithium-Ion 8 to 10kVA can be connected to eight pairs of EBCs, for a total of 16 EBCs. This feature makes this rack or tower UPS unique in the market – offering scalable runtime by adding compact 1U EBCs. Users gain more flexibility, such as the ability to custom-design backup power supply runtime to meet application and high availability requirements.

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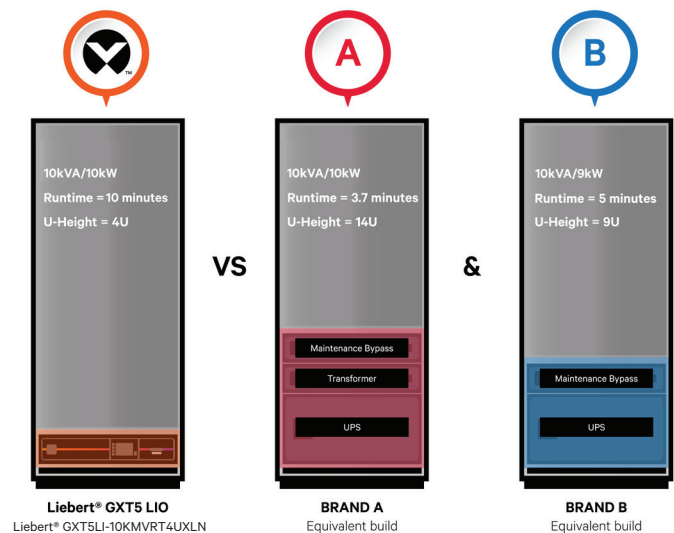


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- **Offering a lower cost of ownership (TCO):** VRLA batteries have to be replaced [two to three times](#) over the typical 10-year lifespan of a UPS, while lithium-ion batteries will typically provide reliable performance over the same 10-year lifespan of the UPS, or longer. As a result, lithium-ion batteries offer a lower total cost of ownership that can result in a TCO savings of \$1,700 or more. The Liebert® GXT5 Lithium-Ion 5-10kVA UPS is also backed by a five-year warranty and protection plan, meaning that these investments are covered in the rare event that an issue occurs.
- **Saving space in technology-intensive environments:** Liebert GXT5 LI 5-10kVA UPS is a rack space-saver, offering high power density in just 3U to 4U of rack space. With their compact U-height, Liebert® high-capacity UPS solutions free up rack space for other IT equipment. They also can be used in environments where space is at a premium, such as in network and server rooms or in edge data centers.
- **Offering an integrated maintenance bypass:** Most 5-10kVA UPS solutions on the market require that an external maintenance bypass be wired in, so that units can be taken offline for maintenance, if required, without having to shutdown connected equipment. Liebert GXT5 LI 5-10kVA UPS has an integrated maintenance bypass connected to the rear panel of the UPS. This patented zero-U design is easier to install and manage. As a result, the Liebert® lithium-ion UPS takes no more than 4U of space, whereas a competitor solution that has an external maintenance bypass can take up to 14U of space.

## Sole-source Data Center Technology with a Trusted Provider

Looking for more than rack or tower UPS solutions? Vertiv offers a broad range of technology and services to help IT and facilities teams optimize data center and edge site infrastructure and management. IT teams can improve device monitoring and management with [Vertiv™ Avocent® ADX Ecosystem](#) and perform out-of-band management with [Vertiv™ Avocent® ACS 8000 Serial Console](#). IT and facilities teams that want more support or just want to outsource key capabilities can elect to buy [Vertiv™ LIFE™ Services](#), which provides remote monitoring capabilities, or the [Vertiv™ Power Assurance Package](#), which combines a high-capacity UPS with maintenance, repair, and replacement services for five years.



## Conclusion

IT and facilities teams have many options in the marketplace, as they search for 5kVA to 10kVA UPS solutions. As a result, they'll be looking for solutions that outperform the competition, to gain an added advantage.

Vertiv™ Liebert® GXT5 LI 5-10kVA UPS offers the compelling business and technology benefits of lithium-ion battery technologies, in a lightweight, space-saving form factor that's easier to install and manage.

Save space in racks for other devices, such as networking technology, while gaining a high-performance backup power supply that can be set up and forgotten.

Learn more about Vertiv™ Liebert GXT5 LI 5-10kVA UPS today.

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