

High-Density, Reliable Power Protection for Data Centre Research and Development Operations



A Vertiv Case Study

Background

A multinational corporation known for designing and manufacturing semiconductors and wireless telecommunications products is motivated to enable a world where everything can be intelligently connected. For the development of this technology, including 5G and Internet of Things (IoT) devices, this corporation required continuous uninterrupted power to prevent loss of data and maintain connectivity for a seamless research and development process.

Challenge

Not only did the manufacturer require robust backup power to ensure continuity of research and development, but it also wanted a data centre power solution that could easily be scaled with demand and one that provided improved energy efficiency through high power usage effectiveness (PUE). The solution also needed to be deployed according to the company's stringent project timeline. Fortunately for Vertiv, the solution provided by our competitors was not cost effective and utilized more footprint than required.

Solution

To meet customer expectations, Vertiv proposed a modular, integrated solution and deployed the [Vertiv™ Liebert® Trinergy™ Cube](#) uninterruptible power supply with lithium-ion batteries to support the manufacturer's 8 megawatt (MW) load. The new generation architecture of this UPS delivered unprecedented levels of installation flexibility, fitting into the company's available floor space. Plus, its simplified cable routing with unlimited input/output power connection availability saved the manufacturer from the additional expense of an alternating current distribution box (ACDB), which improved reliability and led to additional savings in capital and operational expenditures. The range of layout and connectivity options, along with scalable power using simplified cabling, ultimately reduced the time needed for infrastructure deployment.

Outcome

Vertiv's expert installation and commissioning of the Liebert Trinergy Cube reduced this corporation's overall project costs. The flexible features of the system utilized 30% less footprint than competitor solutions while its smart capacity adaptive performance delivered high efficiency and reliability.

Company Profile

Creators of semiconductors, software, and services related to wireless technology

Industry

Mobile Communications

Region

Hyderabad, India

"The Vertiv™ Liebert® Trinergy™ Cube UPS with lithium-ion batteries is the right solution for this company today and tomorrow. It is scalable power in an optimized footprint that enables improved energy efficiency and long-term cost savings for a reduced total cost of ownership."

**- Vikas Srivastava,
Director of Medium and Large
AC Power Offering, Vertiv India**