AC6000 Lithium-ion UPS

Subsidiary of One of the Largest Global Tech Manufacturers

The most recent case study was done with a subsidiary of one of the largest global tech manufacturers in the world. This company prides itself on efficiency and agility in order to carve out their place in the ever-growing tech industry. In order to increase market share and scale business for an increasing customer base, it is important to find ways to be constantly improving in all areas.

To increase the adaptability of their server room, they looked to their individual server cabinets and racks for ways to enhance productivity. They came to Enconnex to help identify gaps and provide solutions.

- Tech Industry Solutions Provider
- Information and Communications Technology
- South Korea, Parent Company- Worldwide
- Over 300 employees,
  Parent Company- 20,000+ employees
- $25-$50 million (USD) per year, Parent Company $10+ billion (USD) per year

CHALLENGES

Increasing productivity of a server room without increased space and capital investment.

The existing UPS units were lead-acid and took up 6-12U per rack. Only providing a 3 minute runtime, additional battery modules were required to extend the duration which consumed an additional 4-6U per rack.

Driving more productivity within the same rack space and improving efficiency.

The amount of space taken up by these UPS units minimized the capacity for the server equipment.

Decreasing operational expenses in the data center.

The lead-acid batteries in the UPS units had to be replaced every 2-3 years due to their short lifespan and longterm expenses.

SOLUTION

The solution was to decrease the current space in the rack taken up by upgrading the lead-acid UPS with a smaller and lighter lithium-ion UPS; the Enconnex AC6000. Decreasing the space taken up by non-productive components and filling the rack with more revenue generating components such as servers allowed them to increase productivity within the same rack space. Making the switch to Enconnex's AC6000 lithium-ion UPS also reduced the operational maintenance cost by decreasing the frequency of battery-change maintenance needed to maintain the UPS. Traditional lead-acid batteries need to be replaced every 3 years while the lithium-ion battery has up to 7 years of maintenance free life.

DRIVING MORE PRODUCTIVITY PER RACK SPACE BY DECREASING THE UPS SIZE

MOVING TO LI-ION

Decreasing operating costs by upgrading the battery

Figure 1: AC6000

RESULTS

After 9 months of switching to the AC6000, the company increased their productivity per rack and was able to report a steady increase in performance of their server room in 2019 while investing zero dollars breaking ground on more square feet for their server room. They were also able to project a compounded savings on operational costs over the next 10 years by eliminating the need for lead-acid battery replacements.

SAVED UP TO 9U PER RACK

Resulting in a productivity increase per U space saved

VIRTUALLY MAINTENANCE FREE

3X LONGER LIFESPAN

7 Years maintenance-free life

"THE AC6000 IS THE FUTURE OF UPS UNITS AND IS THE SMART CHOICE FOR ANY DATA CENTER."

ROBERT FAULKNER - VP, ENGINEERING & OPERATIONS AT ENCONNEX