

# Kings College - UPS for Lifts

UPS System Case Study



**King's College London, founded in 1829, is one of the oldest and most prestigious universities in the United Kingdom. The campus spans multiple buildings and hosts a diverse range of academic, research, and administrative activities. Kings College reached out to us at UPS Systems for a backup power solution to provide a layer of protection for two emergency lifts.**

The lift motors were critical for the daily functioning of the campus, requiring continuous power to both lift motors to ensure everyone could evacuate the building in case of a power failure.

Lift motors are sensitive to power fluctuations and require a stable power supply to prevent damage and ensure the safety of occupants.

With unpredictable power outages becoming a concern, King's College London sought a reliable solution to maintain operations during unforeseen power disruptions.

Whilst speaking with the customer on site it was clear that we had to implement a UPS system to provide seamless power backup for the two lift motors and Ensure the safety and well-being of students, faculty, and staff by preventing disruptions to the lifts in case of a mains failure.

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UPS system provided a reliable and continuous power supply to the lift motors, eliminating disruptions in case of a mains failure. King's College London achieved heightened emergency preparedness, with the UPS system serving as a dependable solution during power outages.

The implementation of the UPS system contributed to the safety and well-being of students, faculty, and staff by preventing potential accidents related to lift motor failures.

*"UPS systems are essential for the safe operation of lifts and emergency lighting, we are experts in assisting clients in staying compliant"*

**Jack Ogden, Commercial Director |  
UPS Systems PLC**

After a comprehensive assessment of the site's power requirements, a tailored UPS system was designed and implemented. The UPS system featured the following components. A 60 kVA UPS was installed to accommodate the power requirements of the lift motors, ensuring a smooth transition during power outages.

Robust battery backup systems were integrated to provide extended support in the event of prolonged power disruptions, allowing for continued lift motor operation.

A thorough evaluation of the power needs, lift motor specifications, and campus infrastructure was conducted. Based on the assessment, a tailored UPS system design was created to meet the specific requirements of King's College London.

Experienced technicians installed the UPS units, ensuring minimal disruption to campus activities. Rigorous testing and commissioning procedures were executed to guarantee the UPS system's seamless integration with the lift motors



The successful integration of a customised UPS system at King's College London exemplifies the importance of proactive power management in ensuring the smooth operation of critical campus facilities. By addressing the challenges associated with lift motor power supply, the university has strengthened its commitment to safety, operational continuity, and emergency preparedness. This case study serves as a model for educational institutions seeking to fortify their infrastructure against power disruptions.