

# centiel

*continuous power availability*



## **Centiel Protects Power for Central London Installation**



Case Study

[www.centiel.com](http://www.centiel.com)



## Customer

One of the commercial fit-out industry's leading companies Parkeray recently appointed Centiel to supply and install a complete UPS system for an office project located in central London.

Parkeray is a professional main contractor specialising in the fit-out and refurbishment of office buildings and commercial premises within central London and the southern Home Counties.

With over 21 years' experience, Parkeray specialist teams undertake a variety of projects ranging in size and scale, valuing from £250k up to £1.5m+.

Trusted to deliver high-quality working environments for clients across a number of sectors, Parkeray's approach is honest, uncomplicated and pro-active at all times.

### Location

Central London, United Kingdom

### Segment

Commercial office

### Challenge

Structural weight requirements and time limitations for the installation challenged the logistics team and the distribution of 13 tonnes of batteries

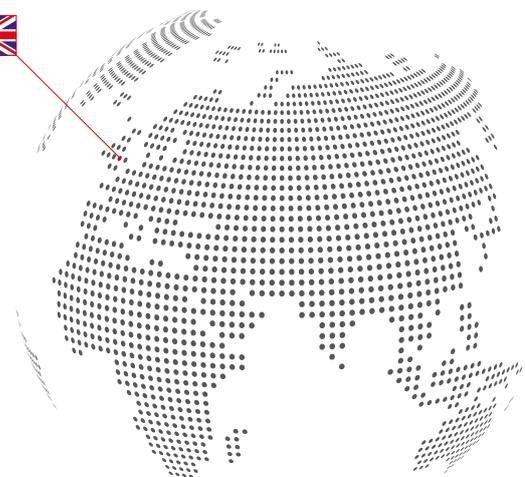
### Power protection solution

2 x 80 kW N+1 (10 x 20kW modules) 4 strings of 50 VLRA batteries per UPS module

### Results

2 x 80 kW N+1 fault-tolerant scalable UPS system installed with 2 hours autonomy in customized racks  
 Reduced UPS footprint  
 Quick and efficient installation and services

**For further information regarding Parkeray please visit [www.parkeray.co.uk](http://www.parkeray.co.uk)**



## The project

Centiel worked with Parkeray the principal contractor and consultants: Troup, Bywaters + Anders to deliver the project which was supported by one of Centiel's latest 4th generation modular power protection systems.

A new operational facility was required for a global firm of professional intermediaries located in the Verdi Building, adjacent to Victoria Station, London. This firm, who work in the financial, energy and

commodities markets appointed Parkeray as main fit-out contractor for the project.

The specification called for a UPS system to provide two hours back up in the event of a mains power failure, major considerations were redundancy, high efficiency, low noise with special attention to weight distribution due to some structural limitations in the area of the proposed installation



## The Challenges

The project presented Centiel's team with several operational challenges to overcome. The new comms room was situated on the third floor above a large atrium. As the UPS unit itself has a small footprint and low weight it could be positioned within the normal floor area, however, because of the required two-hour run time, the 13 tonnes of batteries needed to be situated above an unsupported area of roof space over the building's main reception area.

The next challenge was the delivery and positioning of the batteries themselves. Restrictions on lorries entering central London during working hours prevented deliveries after 6am. Due to the weight restrictions on the third floor, stacking of batteries also prohibited. These logistical challenges were also combined with tight timescales with only one week programmed for the installation process.

## Our Solution

Redundancy and high efficiency was ensured with two Centiel CumulusPower Modular UPS units of 80kVA each, CumulusPower is a three-phase, modular UPS system offering class-leading "9 nines" system availability with very low total cost of ownership.

Unlike traditional multi-module systems, the CumulusPower™ technology combines a unique Intelligent Module Technology (IMT), with a fault-tolerant parallel Distributed Active Redundant Architecture (DARA), to offer industry-leading availability of 99.9999999%.

**This excellence in system availability is achieved through fully independent and self-isolating intelligent modules - each with individual power units, triple bus communications, intelligence (CPU and communication logic), static bypass, control, display.** In the unlikely event of a module failure, the module can be quickly and safely hot-swapped without transferring the load to raw mains.

The two-hour battery system comprised of 2 steel battery racks to hold 4 strings of battery blocks per UPS unit. Bespoke steel girders strong enough to support the batteries were bolted to the main pillars across the centre of the building. This large fabrication of steelwork was joined together with substantial metal plates which required bespoke battery racks and ensuring the weight was distributed properly over the new span of steelwork. For ease of future upgrade, the battery rack was installed with space for installation of future batteries and an open type was chosen for ease of maintenance.

The weight and access restrictions meant that delivered batteries were unable to be stacked adjacent to the area whilst the racks were being assembled, onto the steelwork. Therefore, our team was required to accept only one pallet of batteries per day and carry them from the delivery area and load them onto the rack individually.



## Customer Testimonial



"Steve Mott of Parkeray: "Parkeray was responsible for the complete office fit-out including comms room, social area, boardroom, and office space. We also managed work on walls, ceilings, floor as well as lighting and power.

This was an important project that required a reliable UPS provider and with prior experience of working with Centiel I was confident in their ability to deliver a tailored UPS solution and bespoke battery racks.

Their team worked incredibly hard; shifting 13 tonnes of batteries was certainly a manual, hands-on task! But as expected, the team delivered 100% on their commitments, which resulted in the full commissioning of the system".



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