



# Case Study Summary - Inverter Replacement and Upgrade of Faulty Unit



- The scope of the project was to replace a faulty inverter system used with battery back-up to illuminate lights and exit signs on all floors of a University building in Manchester on mains failure to allow safe evacuation of the building should there be a mains supply failure. Also, since the University had begun replacing older style lighting with more energy efficient LED versions, then they needed the any replacement inverter system to be compatible with the new lighting
- We rated a 3-phase 22kVA Power-Pro inverter system from BPC suitable to manage the existing lighting load in addition to the extra in-rush current requirements from the upgrade to LED lighting
- A battery rack housing 60 maintenance-free sealed lead-acid PowerStor batteries rated with a 10-year design life was provided with all battery build, cabling and commissioning provided by RDF Lighting Power and Control engineers.
- To allow the University's maintenance team to isolate the inverter during maintenance, a suitably rated 3-phase maintenance bypass switch was also provided and fitted.

