

AVK
THE POWER PEOPLE

About Us

The UK's leading provider
of critical power systems
and maintenance.



Who are we?

AVK are the UK's leading provider of critical power systems and maintenance, specialising in all aspects of the design, planning, implementation and on-going maintenance of critical power systems.



QUALITY
is our standard



TRUSTED
SERVICE



WORLD CLASS
EXPERIENCE

We are the largest supplier of Data Centre and Financial sector critical power solutions in the UK, with 4 offices across the UK and Ireland.

For over 30 years we've been providing Generator and UPS solutions for mission critical services and systems. Since our founding in 1989, AVK have enjoyed steady and consistent growth, not only in size, but also our reputation. We are trusted by many of the UK's largest Blue-Chip companies to design, install and maintain 100% power integrity to guarantee their operations when mains power fails.

AVK has a unique capability for design, manufacture, installation and on-going maintenance of standby power systems containing UPS systems and standby generators. We provide expertise in the design, planning and implementation of power systems projects in all major market sectors ranging from Data Centres, Banking and Finance, Telecommunications, Education and Healthcare in both the private and public sectors, from standard configurations to special applications.

It is our aim to provide maximum support to our clients coupled with reliable, high quality products delivered on time and within budget, working closely with you to ensure an efficient and effective system design.



Our Project Services

AVK provide expertise in the design, planning and implementation of power systems projects in all major market sectors. We are experts in state-of-the-art solutions meeting today's demands for reliability and efficiency.



BESPOKE
solutions



**INSTALLATION
& SERVICING**



24/7
Maintenance

DESIGN

We offer full design & consultancy for your critical power system project - no matter the scale or how challenging. We can design any system containing UPS systems, standby generators, switch gear & control systems around your requirements, in the present and for the future.

- Survey & Consultancy
- Drawings & Technical Submissions
- Strategy
- Turnkey Solutions
- In-House drawings in AutoCAD to BIM
- PI Insurance



INSTALLATION

Our project management team can facilitate a smooth and pain-free installation liaising closely with you and your representatives. We provide full onsite services from offload and position, to electrical and mechanical engineering, commissioning and handover to you or your client.

- Full Project Management
- Mechanical, Electrical & Civil engineering
- Flue, Silencer & Coupling Installation
- Fuel Delivery Systems
- On-site Test & Commissioning
- Project Handover

ENVIRONMENTAL

AVK provides complete response, environmental and decommissioning services across the generator industry. We offer solutions for the maintenance, OFTEC inspection and environmental management of fuel storage facilities, with dedicated expertise ranging from incident spill response to environmental risk assessments and storage tank decommissioning/replacement.

- Response to Spill incidents
- Decommissioning, Installation & Repair work
- Tank Cleaning & Inspection
- Fuel Polishing & Testing
- OFTEC inspections
- 24/7 Fuel Delivery



Our Products

As the UK's leading provider of critical power, our comprehensive product range covers all your power protection needs and more.

STANDBY GENERATORS

AVK are the UK leaders in standby diesel and gas generator design, supply, installation & maintenance.

For mission-critical systems and facilities where 100% power is vital for 100% of the time, a backup generator power system is essential to the continuous power delivery during times of mains failure or outages, protecting your equipment for much longer periods of time, from hours to days or even weeks, dependent on fuel storage.

AVK have over 30 years' experience and expertise in the supply, installation and maintenance of generators and genset packages to the UK market. Whether you require standby diesel generator to provide you with power during a mains failure or a prime power generator set to generate your power off grid, our range covers all business requirements. We also offer a wide range of gas products for both base load and standby application, including both medium speed and high speed engines from specialist chosen manufacturers.

We take pride in each and every critical generator power system and turnkey project solution we deliver - from Data Centres, Banking, Finance and Enterprise clients, to Healthcare, Education and Transport - anywhere where constant power is required to maintain normal business operations without risk to data, machinery, financial loss or even lives. We also offer full maintenance and availability guarantees where required.

UPS SYSTEMS

Highly efficient, technologically advanced UPS Systems for mission critical systems and facilities.

AVK UPS Systems provide the best power protection during shorter periods of mains power failure, becoming a critical bridge between your main power source and backup generator system.

Where a standby generator will take over and protect the load for longer durations of time, a UPS system acts as the first line of defence against loss of power; able to react instantly to outages and bridging the critical 'power gap' before the Generator system comes online.

AVK UPS systems are designed to provide years of low-maintenance protection, keeping your power supply constant - whether it's running critical processes or safeguarding servers, our UPS range combines the latest in technology and efficiency, resulting in the lowest operating costs in the industry.



PROTECTION AND CONTROLS

AVK supply the Woodward (formerly SEG) range of state-of-the-art Protection Relays for power generation transmission and distribution.

Our wide range of protection relays incorporate the latest state-of-the-art digital protection for feeder protection, restricted earth fault transformer or generator differential protection for diesel generators.

A G59 and C99 Loss of Mains Protection Relay is required to safely disconnect generators from the grid in the event of main failure. It is mandatory for all systems producing more than 16 Amps per phase (11kW for a 3-phase system).

AVK are Europe's leading manufacturer of specialist G59/3 and C99 technology products for grid paralleling applications and have extensive experience in the field with many sites across the UK including AVK installations.

CONTROL UPGRADES

AVK can help you to maintain ultimate control of your power protection.

Most generators amass very few running hours during their lifespan, and with regular maintenance, the engine and main AC alternator can be reliable and supportable for well over twenty years. But, as the control systems that operate your generators age, they can fail and become unsupportable as advances in technology move on. Control Upgrades allow your existing standby power system to take full advantage of the technological advances in generator controls without replacing the gensets themselves, offering a cost-effective method of upgrading your critical power systems.



BATTERY STORAGE SYSTEMS

AVK's Battery Storage Solution is proven technology coupled with Li-ion Batteries, Super Capacitors and Sodium Batteries providing operations from 8C through to 0.3C autonomy and up to 6000 cycles. The ABSS is bespoke to site and provides Grid Approved/exceeding response times. Easily coupled with any forms of Energy to unlock the true potential of your site.



Service and Maintenance

AVK offers market-leading proactive critical power service and maintenance support to keep your business running.

Your business has chosen to invest in protecting its power if the mains supply fails, but can it guarantee that your standby equipment, UPS and Generators will function correctly when you need them? A power protection system that doesn't perform when needed most is no protection at all.

At AVK, we understand that the only acceptable amount of downtime is ZERO. Your business depends on it and so does our reputation. With regular preventative and essential engineer service and maintenance visits we aim to identify faults or problems before they lead to a critical failure, guaranteeing you back-up power for today, tomorrow and the future.

AVK have over 30 years' experience delivering proactive critical power service and maintenance in all sectors of business and offer the most competitive and bespoke maintenance plans based around your requirements. With a dedicated service division and an extensive network of technical engineers and support staff on call across the UK and Ireland, we guarantee the very best in critical power maintenance.



**MAINTENANCE
& SERVICING**



24/7
Emergency Callout



**NETWORK
of ENGINEERS**



**TRUSTED
SERVICE PROVIDER**

- Diesel and Gas Generator Service (all manufacturers)
- UPS Servicing
- Industry Leading Maintenance Contracts
- 24/7 Emergency Callout
- Engineers on call across UK and Ireland
- Trusted Service Provider

UPS & GENERATOR HIRE

For many businesses, projects and one-off events, a hired critical power backup solution provides flexible, dependable power protection at an affordable, predictable cost, inline with short or long-term business plans and budgets. AVK offer competitive, fully flexible power rental contracts – so you'll always have the power generation and standby systems you need, for as short or as long as required. Every AVK hired power system will be delivered, installed and maintained effectively at your premises or chosen delivery location throughout the entire hire period without complication, leaving your business, project or event with peace-of-mind.



An aerial night view of a city street intersection, featuring a network of glowing white lines and nodes overlaid on the scene. The network includes several circular icons: a classical building facade, a car, a warning triangle, a right-pointing arrow, and a left-pointing arrow. The background shows a street with a white car, a blue car, and pedestrians, with a large Christmas tree on the left. The overall color palette is dark blue and black, with white and yellow highlights from the network and street lights.

World Class Experience

Our people are at the heart of your business. To meet our clients' needs, we work in over 50 territories around the world, ensuring that both global standards and local requirements are met.

Relationships may start with one-off projects, but most of our work is delivered through partnering and outsourcing. Such strong relationships produce exceptional solutions, delivered seamlessly, making the HDR | Hurley Palmer Flatt Group your trusted advisor.

We have gained a hard-earned reputation for providing clients with the absolute confidence of working with teams that are completely focused on results whilst also demonstrating the expertise, energy and determination to understand and meet the client's needs.



**WORLD CLASS
EXPERIENCE**

Our Commitment

We are not just committed to reducing the environmental impact of buildings over their entire life cycle we are also committed to providing you with the best service advising on the best strategies for reaching these results.

We are one of the first engineering consultancies to have a dedicated Energy & Sustainability division and we are leaders in the practical application of sustainable solutions for 20 years.

From Board-level support helping household names set and achieve industry-beating carbon strategies, to environmental and sustainability support throughout the entire life cycle of your building, we are committed to providing tailored expertise and guidance at each stage of every project.

The environmental and sustainability demands on our clients continue to grow and change rapidly. We are committed to remaining innovators in this field and our clients can be confident that we will provide the solutions they need.







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