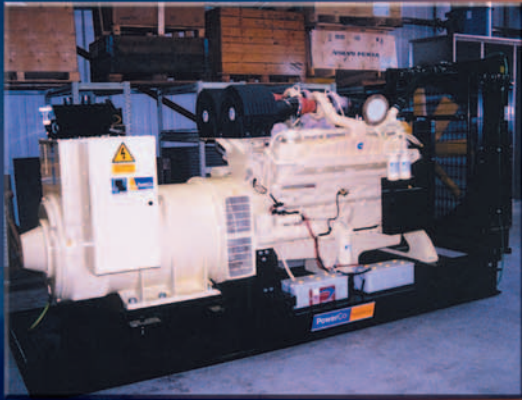




PowerCo

Systems



www.generatorsets.co.uk



Quality Power at a Competitive Price

PowerCo Systems are an independent manufacturer of a comprehensive range of generating sets incorporating diesel, gas and petrol engines with outputs from 5kva to 2500kva 50 & 60hz. Powered by internationally accepted engines such as Perkins, Cummins, Volvo, Lister, Deutz, John Deere and many other major manufacturers. PowerCo Systems are specialists in providing custom-built packages to meet clients' exact requirements.

Standard packages are also available on quick delivery. All PowerCo generating sets are designed to operate in tropical conditions.



COMPUTER AIDED DESIGN

PowerCo generating sets are designed using the latest C.A.D. technology ensuring the equipment meets the demands of our clients and operates under the required environmental conditions.

PowerCo Systems' product range also includes:

- Weather proof housings
- Sound shields to meet EC regulations
- Mobile power
- Containerised power
- Telecommunication power packages
- Military units
- Remote control systems
- Full range of switchgear

Also offered are a comprehensive range of services:

- Installation facilities
- Spare parts supply
- After sales customer support
- Maintenance contracts
- Technical advice and consultancy service

CONTROL SYSTEMS

PowerCo control systems are designed to a high specification with the latest state of the art technology. Designed for easy use, they are offered in a choice of configurations:

- Electric start.
- Automatic mains failure.
- Remote start and control.
- Manual synchronising.
- Automatic synchronising.
- Multi-set systems with auto start/stop on demand.
- Remote monitoring.
- PLC based control units.
- Duty/standby dual mutual.



Product Range



Diesel and gas driven generating sets from 5kva to 2500kva. Highly trained design engineers use the latest technology to design generating sets and control systems to meet the exact requirements of customers. PowerCo generating sets provide prime or standby power to hospitals, factories, offices, construction sites, airports, banks, telecommunication systems or wherever reliable power is essential.



SOUND SHIELDS

Sound shield canopies are available on all PowerCo generating sets, significantly reducing noise levels emitted to comply with EC directives. Super sound shields are also available reducing emitted noise to as low as 55dba @ 7mts.



- *World renowned diesel and gas engines.*
- *State of the art easy to operate control panels.*
- *Compact heavy duty build.*
- *Cost effective design and construction.*
- *Full worldwide guarantee*





WEATHERPROOF CANOPY

A compact weatherproof canopy can be provided enabling all units to be operated in outdoor locations without the need for extra protection. Access doors make maintenance easy.



MILITARY UNITS

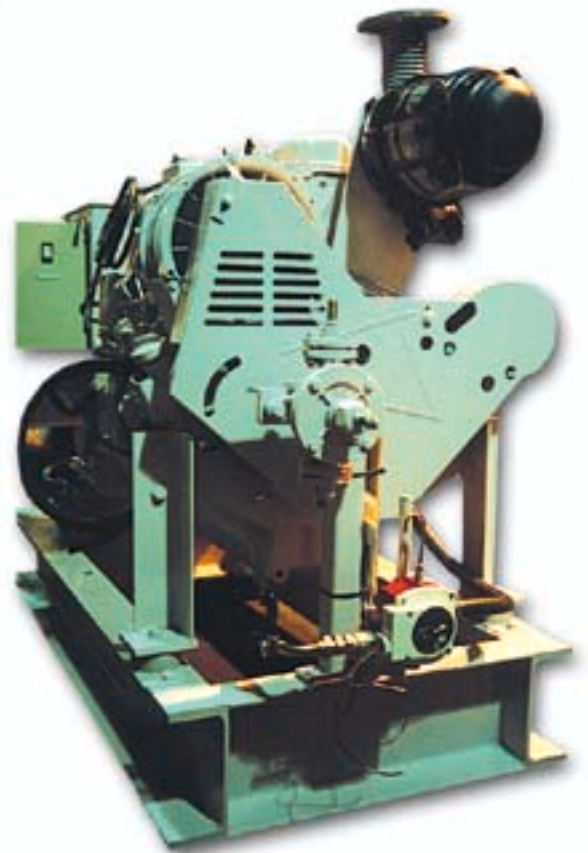
A range of generating sets are available for military use, covering a wide range variety of specification suitable for communications and radar systems. Sets are specially designed for rugged use and can be canopied, mobile (from 2 to 6 wheel trailers), containerised or portable.





MOBILE

Mobile generating sets are available throughout the full kva rating of the PowerCo range. Trailers (2 to 6 wheel) meet all relevant road traffic regulations and can be provided with weatherproof canopies or sound shields.



TELECOMS

PowerCo specialise in supplying generating sets to the telecommunications industry. These can consist of single, dual or triple generating sets housed in buildings or in containers. Designed to meet the most arduous conditions for local or remote sites, including extended unattended running and remote monitoring. Control systems are computer compatible to enable remote control and operation.



CONTAINERISED

PowerCo containerised units are designed for swift on-site power. Fully weather protected and noise reduced if required. Units can be installed with the minimum of on-site preparation and work. Easy access is provided for operations and maintenance.

CONTROL SYSTEMS & SWITCHGEAR

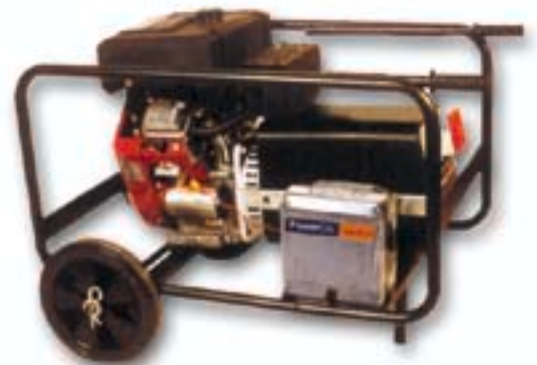
PowerCo control systems offer a wide range of specification from simple manual start system to the latest state of the art automatic starting.

Fully automatic synchronising including auto start/stop on load demand for multi set systems is also available. A full range of automatic transfer switches (ATS) along with a full range of operational switchgear is also available.



PORTABLE

PowerCo offer a full range of portable generating sets from 1 to 15kva using renowned diesel and petrol engines. 1500rpm and 3000rpm units are available.



SPARES, AFTER SALES SERVICE & INSTALLATION

PowerCo prides itself on its after sales service. When your generating set has been installed reliable support is needed to ensure it provides you with years of trouble free service. The PowerCo parts department can advise you on and supply all of the necessary parts to keep your generating set in first class operating condition.

If clients require an installation service PowerCo can supply the full expertise of its installation team to ensure your unit is correctly installed. Advice can be given on all aspects of installation, including ventilation airflows, exhaustback pressures, fuel systems and engine room layouts. In short, PowerCo can offer a full installation and after sales package.

Standard Specifications for PowerCo Generating Set

Engine: Manufactured in accordance with BSS 5514 and generally to such International Specifications as: DIN, EIC and NEMA. Suitable for continuous, baseload or standby duty.

Engine Type: The engines are of the heavy duty, diesel compression ignition type.

Cooling:

Water cooled engines:

Engine mounted, fan assisted tropical radiator with pusher fan.

Air cooled engines:

The engine is air cooled by means of engine driven axial fan forcing the cooling air over the cylinder head and block. Suitable for operating in tropical climates.

Governor: The governor fitted is designed to comply with BSS 5514 Class A1.

Starting: The engine is arranged for electric starting by means of a starter motor engaging on toothed ring on flywheel.

Charging: Battery charging is provided where required.

Exhaust: A suitable silencer/muffler can be supplied.

Engine Protection: Low oil pressure and high engine temperature protections are provided as standard causing the engine to automatically stop in the event of a failure.

Filters:

Filters are provided for:

Fuel oil

Lubricating oil

Air intake

Daily Service Fuel Tank: Approx. 6-8 hours capacity, either fitted into the baseplate or provided loose as required.

Coupling Arrangement: Close coupled design embodying flywheel housing and disc coupling. This arrangement ensures constant alignment and ease of maintenance.

Alternator: Brushless design, screen protected, fan ventilated, drip-proof, in accordance with IP21, fitted with heavy duty, long life or roller bearings, lubricant packed for 4000 hours running without attention. Constructed in accordance with BSS 5000 Part 99.

Regulation: Voltage regulation is maintained within the limits of $\pm 1\%$ from no load to full load including cold to hot variations at any power factor between 0.8 lagging and unity and inclusive of a speed variation of 4%.

Insulation: Stator and rotor insulation is Class H standard.

Suppression: Radio and television interference suppression is provided to comply with BSS 800/1954.

Bedplate: The generating set is mounted on a suitable baseplate or channels manufactured from high quality steel.

Paint Finish: The generating set and control panel are finished in oil proof enamel to BS 4800.

Testing: Each generating set is fully tested as a complete unit prior to despatch.

Standard/Quality: PowerCo manufacture to all relevant ISO and British Standard specifications.

*Generator sets 5kva
to 2500kva*



Stationary



Mobile



Soundproofed



Weatherproofed



Military



Telecoms



Customised



Containerised



Powerstations



Synchronised



*Your one stop
power specialists*



PowerCo

Systems

*The Generating set specialists
designing packages to meet clients exacting requirements.*


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Agents & distributors throughout the world

YOUR LOCAL POWERCO DISTRIBUTOR:



PowerCo Systems

The PowerCo Head office and factory is situated in Yorkshire and is ideally located for distribution to all major U.K. ports. PowerCo generators are shipped worldwide.

The company reserve the right to change and modify specifications without prior notice.