

## Diesel generator

With SCS Group in Partnership with Constant Power Services (CPS) we are able to provide competitive proposals for either open or enclosed standby-by and prime rated generators from 10kVA to 2MVA.



### General Specification

All sets are fully load tested prior to dispatch and can be configured for multi-set paralleling. In most cases these units incorporate electronic governing, automatic start-up upon mains failure and either automatic change over panels.

All sets can be supplied with weatherproof acoustic enclosures to suit a variety of sound level requirements. These enclosures have wide doors for maintenance and house the exhaust system and control panel.

We can offer full installation and commissioning to ensure that your set is onsite and online without any complications. Preventative maintenance and 24-7 emergency call-out services are available. Access to a complete fleet of fuel tankers enables us to offer a round the clock refueling service. A fleet of dedicated rental sets enable us to supply quickly, complete with all the necessary cabling and switchgear.

### Product data

To calculate the size of the set you need to be established if the whole building is to be supported, in which case electricity bills can provide historical information useful in obtaining peak load levels or monitoring of the load to check demands.

Future expansion of building facilities or additional equipment must also be taken into account when sizing the generator. If loads can be sequentially started, this helps to reduce the 'cold start' demand on the set and could allow a smaller set to be used thereby reducing capital costs.

If only supporting part of the building load, usually referred to as essential, it is necessary to determine which loads are most important, these are typically emergency lighting, UPS, essential air-conditioning, building lifts and a limited amount of small power. It must also be considered that many loads of this type have high start up currents or impose non-linear demands on the generator, so care must be taken when calculating the size of set needed.