



# Residential power

RSPW/GB-2008/1

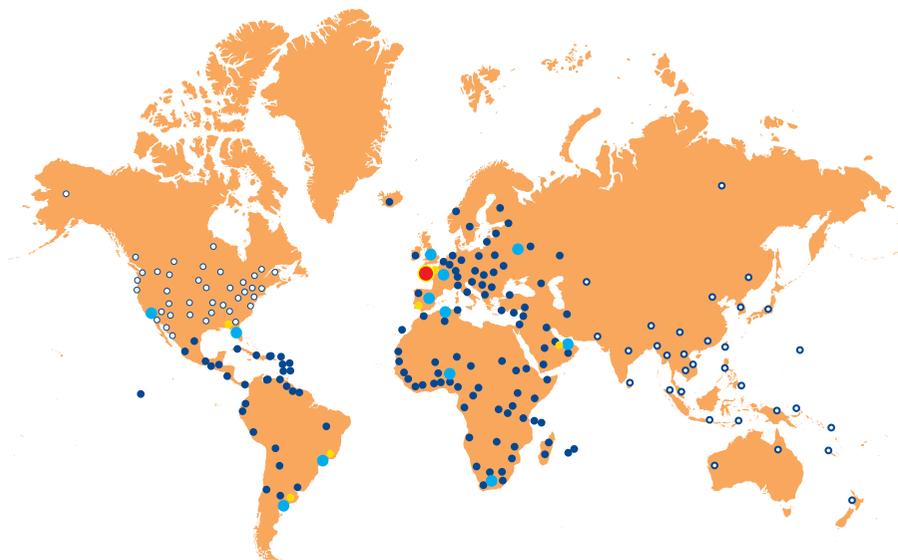


Global Power  
Solution™

# SDMO®: provides whatever power is required

SDMO® is recognised as one of the leading generator set manufacturers. SDMO® has designed a range of competitive, high performance products that is recognised as the most comprehensive on the market. Power requirements are continuously becoming more exacting to meet specific operating conditions and so SDMO® has adopted a policy of continuously improving its product ranges and services. The strategy of concentrating on a single sector has developed in-depth expertise to provide reliable power meeting the most rigorous standards. The dynamism of SDMO® personnel combined with the flexibility of its production facilities enables SDMO® to stay at the leading edge of innovation. The company is committed to its extensive distribution network and active service policy which are the cornerstones of the company's values.

**Energy means life, SDMO® power creates bonds for the comfort and safety of all.**



SDMO Industries exports its products to more than 180 countries via its extensive network of agents and distributors and its 7 subsidiaries:

- SDMO Energy Ltd, England,
- SDMO Industries Ibérica, Spain,
- SDMO nv/sa, Belgium,
- SDMO Argentina SA, Argentina,
- SDMO Do Brasil, Brazil,
- SDMO Lagos, Nigeria,
- SDMO Generator sets, USA.

- Distributor/Service Centres
- SDMO® sites
- SDMO® stocks
- Service Centres
- Head Office

## SDMO® product ranges

### → Portable Power

The Portable Power range meets the highly varied requirements of professional and home users. Products are designed to be practical and easy to use and particular attention has been paid to safety.

### → Residential Power

This product range is intended for residential use. These gensets are designed to provide power when there is a power cut, ensuring that home appliances continue to operate.

### → Power Products

Performance and power are the hallmarks of this standard range designed for the trade. Responsiveness is improved by value-added services such as the X-PRESS standard stock gensets.

### → Rental Power

This range is targeted at the rental market with gensets that are both portable and quiet – two essential criteria to meet special operating conditions.





## Never lack power!

Your home needs power. **SDMO**® generator sets are of professional quality but designed for home use so that you can continue working even during a power cut. **SDMO**® gensets are compact and sound insulated and take over automatically if there is a power cut, ensuring that life in the home continues as normal, with complete peace of mind.

**Have confidence in your SDMO® genset. It will start up if there is a power cut, whether you are there or not, and will provide power, for example, to:**

- Keep refrigerators and freezers running.
- Operate air-conditioning, heating and alarm systems.
- Operate drain pumps, anti-frost systems, etc.
- Supply power to your computer system.
- Enable daily life to continue without disruption.

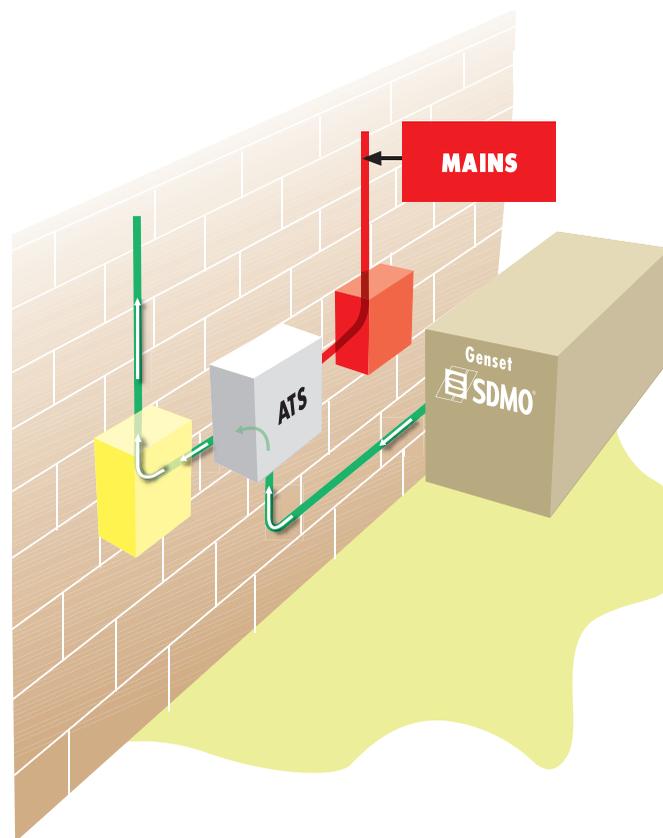
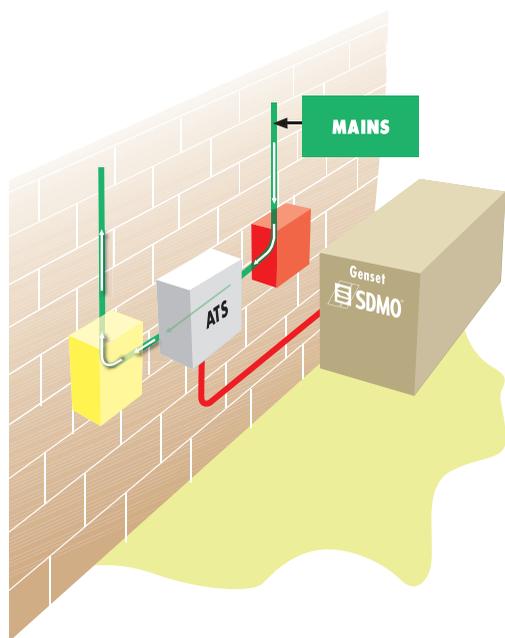
**SDMO**® generator sets are installed permanently outside the home and take over automatically to generate power if the mains electricity supply fails.



# Practical, automatic and simple: an alternative

## Mains supply OK

The mains power supply is OK. The automatic transfer switch (ATS) connects the mains to the distribution board.



## Power cut

When there is a power cut, the automatic transfer switch (ATS) detects that there is no mains electricity and starts the generator set. The distribution board is then supplied from the genset which provides electricity to the home.

## The **SDMO**<sup>®</sup> extra

### → More reliable power supply

Fluctuations in the electrical supply can damage electrical equipment connected to the mains (plasma displays, refrigerators with electronic temperature control and computers.) **SDMO**<sup>®</sup> gensets supply backup power that meets normal residential electrical distribution standards. An **SDMO**<sup>®</sup> genset will not damage expensive electronic equipment!

### → Better sound insulation

**SDMO**<sup>®</sup> gensets run quietly to comply with noise regulations. The quietest gensets operate below 65 dB(A) @ 7 m, the same noise level as a centralised air-conditioning system.

### → Quick response

**SDMO**<sup>®</sup> gensets restore the electricity supply in a few seconds. They have an automatic system for weekly testing to check that the genset will operate correctly should it be required.



# source of electricity that is always available!

**SDMO®** home generator sets take over from the mains supply automatically and reliably.

## Operating principle:

- The automatic transfer switch monitors the presence of the mains and selects the power source.
- If there is a power cut, the automatic transfer switch starts the generator set and switches the power source to restore the electrical supply within a few seconds.
- When the mains electricity supply returns to normal, the automatic transfer switch switches back to the mains, turns off the genset and continues to monitor the mains supply.
- **SDMO®** generator sets are also programmed to carry out automatic weekly maintenance tests to ensure that they are in working order and able to generate electricity should there be a power cut.

**SDMO®** gensets provide a reliable, continuous supply even for the most sophisticated electronic equipment.



## → Fuel

**SDMO®** gensets are available for running off liquid propane gas or natural gas as well as diesel. Gas gensets have lower emissions, making them more environmentally friendly, run more quietly and require less frequent maintenance. The choice is yours.

## → **SDMO®** quality

**SDMO®** is a well-established international group with 40 years' experience in manufacturing generator sets to provide back up power.



# Selecting a generator set

## Rating

**SDMO®** has created a range of domestic generator sets that will supply power to all equipment in the home. To decide which genset model best meets your requirements, make a list of the critical systems and equipment in your home that are connected to the mains – heating, air-conditioning, household appliances, electronic equipment, etc.

The following selection guide will help you define your requirements. Bear in mind that your requirements may vary depending on the power consumption of your electrical equipment. The rating of your electrical equipment is given in the manufacturers' data sheets. **SDMO®** advisers can carry out a study of the electrical load to your home to help you choose the most suitable genset.

**Your adviser can check your electrical equipment regularly to ensure that your generator set will operate at maximum efficiency.**



## Selection guide

The table opposite will enable you to assess the power supply required to operate several electrical appliances at the same time.

	8,5 kW	12 kW	15 kW	20 kW	30 kW
Boiler fan					
Refrigerator/freezer					
Drain pump					
Lighting					
Well pump					
TV/radio					
Computer					
Ventilation					
Automatic garage door					
Large cooker					
Emersion heater					
Burglar alarm					
Centralised air conditioning					
Washing machine					
Dryer					
Dish washer					
Vacuum cleaner					
Oven/grill					

As the electrical equipment in the home is never all operating at the same time, **SDMO®** gensets do not need to be rated to supply all the electrical appliances at the same time. Contact an **SDMO®** adviser to determine the exact consumption in your home. The generator set must be installed by a qualified installer.

# Hints

## → Estimating the power required

When selecting a generator set, calculate your power requirement by adding together the rating of all equipment that will be operating at the same time. You should also estimate the surge rating for each appliance.

## → Surge rating

Some equipment has a higher startup rating than the normal operating rating. This must be taken into account when selecting the generator set. The surge rating is calculated by multiplying the equipment rating by a factor specific to the type of equipment supplied.

## → Frequency

The frequency is expressed in Hertz and depends on the country where you live.

## → Types of electrical equipment

There are several types of electrical equipment: resistive equipment (e.g.: lamps, etc), equipment with small motors (low start-up current such as sanders, drills, etc) and equipment with large motors (high start-up current such as refrigerators, washing machines, etc). The type of equipment for an electrical appliance may be specified in the user manual or you can find out from your reseller. Once the type of equipment is known, the table opposite gives the factor for calculating the surge rating.

## → Assessing and comparing noise levels

The noise levels are expressed as the sound power level L<sub>wa</sub>. The measurement methods are defined by strict standards and the values give an accurate guide for comparison of the noise level from equipment. Any other noise level specified in dB refers to the noise measured at a given distance which is not fixed.

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