



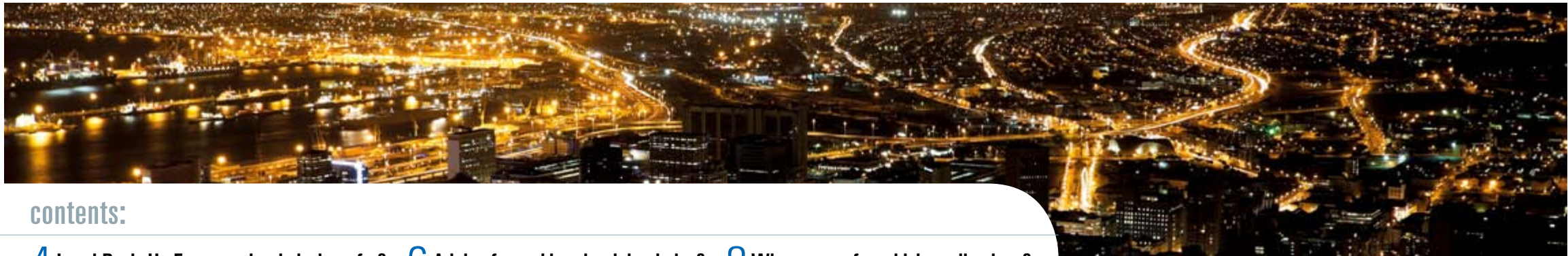
LOCAL
BACK-UP ENERGY
PRACTICAL GUIDE

GUARANTEED SAFETY
AND PEACE OF MIND,
THE SIMPLE WAY!



PPW-AS-DU-EN-71

KOHLER®
SDMO®



contents:

- 4 Local Back-Up Energy: what is it there for?
- 6 Advice for making the right choice?
- 8 What power for which applications?
- 10 Fuel petrol and mobile installation
- 12 Two diesel lines
- 14 A Gas line
- 15 Accessories and options



In order for KOHLER-SDMO to continue to grow and meet the needs of new markets, it relies on:
In France: 8 sales offices and 3 regional divisions.
Globally: a distribution network present in over 150 countries, 6 subsidiaries, 7 offices.
The responsiveness of the company is based on its development of 6 storage platforms which, in co-operation with the subsidiaries, constitute an efficient commercial network.
Now that KOHLER and SDMO have joined forces, you are guaranteed to benefit from this fruitful partnership thanks to the increased presence of KOHLER-SDMO locations in your area.

- SDMO Energy LTD in the United Kingdom
- SDMO Industries Ibérica in Spain
- SDMO nv/sa in Belgium
- SDMO Maquigeral in Brazil
- SDMO Generating Sets in the USA
- SDMO GmbH in Germany



NUMBER 1 GENERATING SET MANUFACTURER IN FRANCE AND NUMBER 3 IN THE WORLD

From offshore drilling platforms to harsh desert conditions, from building sites to the most exacting industries, the reliability and performance of **KOHLER-SDMO generating sets** has firmly established the company as one of the **leading global manufacturers**.
SDMO Industries was created in 1966, setting up its head office and three factories in Brest, along with another plant in Brazil. Backed by an international group structure, KOHLER-SDMO continues to reinforce its leading position on the European market. **Today, the company focuses exclusively on generating sets, and offers the widest range on the market.**
Actively promoting constant progress and permanently in tune with its customers' most stringent requirements, the Research & Development and Engineering teams work in harmony to develop **innovative standard or bespoke solutions**. A distribution network covering 150 countries means that SDMO Industries is able to provide a dedicated and localized service to each and every one of its customers.

Fields of expertise: Telecommunications, Healthcare, Power Stations, Extraction sites, Banking, Insurance, Data centers, Military groups, Cogeneration, Large retail outlets, Agri-foods, Construction and Public Works, Industrial Vehicle Hire, Prestigious sites...

And, of course, ranges dedicated to the general public and professionals.

CONSTANT INNOVATION TO BENEFIT YOUR PROJECTS

To offer you guidance when developing your projects, the KOHLER-SDMO Research & Development Department groups together 100 engineers and technicians. Their aim: to provide you with concrete solutions which feature the most innovative technologies.

- A holistic process**
The KOHLER-SDMO Research & Development Department is committed to working alongside you to ensure the success of your projects right up to the point of delivery, in line with the following 7 steps:
- understanding your requirements,
 - analyzing your demands and constraints precisely,
 - providing you with solutions adapted to these needs,
 - integrating innovative technologies,
 - designing complete programs,
 - creating your installation,
 - ensuring the maintenance and technical monitoring of your installation.

State-of-the-art tools
Trained to master the latest design and analysis tools, KOHLER-SDMO technicians can rely on advanced 3D modelling software incorporating a very precise structural calculation module. The innovative techniques at their disposal enable them to meet the requirements of global standards with precision: reduction of pollutant emissions, noise attenuation, etc.



For sound emissions analysis, KOHLER-SDMO test engineers are able to obtain particularly fine results through use of the state-of-the-art technique of sound intensity measurement, associated with modal analysis to determine the vibration frequencies.

A RANGE DEDICATED TO ALL USES



Portable Power
Efficiency and ease of handling are the key features of this range, which meets the diverse needs of the professional market, whilst ensuring safety remains paramount.



Power Products
Performance meets power in this standard range dedicated to the most exacting professional applications. Combined with highly responsive services, such as the X-PRESS lead time solution, this range means we can supply a generating set anywhere in the world, with a very quick turnaround.



Rental Power
Versatile, robust and very quiet, essential criteria for this range specially designed for the rental market, with performance levels which enable it to meet specific, high intensity operating conditions.



Power Solutions
Specific and adaptable, the generating sets in this range create innovative solutions able to meet highly exacting requirements. These generating sets and power plants use tried and tested technologies covering a broad spectrum of applications.

LOCAL BACK-UP ENERGY:

Local generating sets provide back-up upon a mains power outage. Some take over automatically without anyone needing to start them up. Others require manual start-up.



+50%



The global population will have increased to 8.7 billion by 2035.
This will see energy consumption increase by more than 12% per inhabitant.

WHAT IS IT THERE FOR?

REASON 1

COPE WITH GRID SATURATION

Energy requirements, especially electrical, are increasing: water, heating, electrodomestic appliances, TV, Hi-Fi, personal and professional computers, security systems, etc.

Demand is seeing such growth that the electrical grid will naturally become saturated, which will have consequences on the quality and continuity of the electrical power supply. Weather phenomena, primarily storms, increase the risks of power cuts.

REASON 2

ENSURE THE SAFETY AND PEACE OF MIND OF 3 VULNERABLE USER GROUPS

We have identified 3 user groups for whom SDMO® local generating sets are an essential solution in terms of safety, comfort and convenience.

LOCAL SHOPS

For the majority of shops, a power cut can lead to forced closure. Pharmacies, increasingly equipped with automated systems, can see **their drugs service lift stuck, fresh remedies go off, etc.** Small traders have to cope with **the loss of frozen merchandise, i.e. of profit!** For them, it can also compromise their establishment's image and safety.

Any temperature rise accelerates microbe growth, and reduces the product shelf life: a sound product can become a risky product, and the appearance and taste can deteriorate. **So a power failure can create a break in the cold chain, damaging for food preparation professionals,** for example.

HEMOCARE AND TREATMENT HOMES

Homecare is a form of full-time hospitalisation, in which **the patient receives major medical and paramedical treatment at home.** Vulnerable people, due to disease or old age, need suitable equipment: a medical bed with its accessories, breathing aspirator, infusion pump, electrical syringe, flow regulator (enteral nutrition), etc.

This non-exhaustive list clearly shows that **having an uninterruptible supply is vital,** and that the slightest power cut can have serious consequences. Patient safety is at stake.

INDIVIDUALS

Though accustomed to constant availability of electricity, few individuals truly realise that **power cuts can compromise their safety, comfort and convenience, or even paralyse their home automation, causing damage to:**

- food in the refrigerator and freezer,
- air conditioning, heating and alarm systems,
- all equipment running on the mains (office appliances),
- sewage pumps, frost protection systems, etc.

Using a local back-up energy source ensures smooth running of your day-to-day life, free from disruption.



REASON 3

PROVIDE A QUALITY GENERATING SET

The choice of generating set depends on several parameters, such as: its use (occasional or intensive), its power, the fuel type, the installation (fixed or mobile), the starting, etc. The quality criteria are compactness, reliability and soundproofing.

COMPACT AND RELIABLE

SDMO® local generating sets are compact units, **with highly discreet outside installation,** and are able to restore the electrical supply automatically. They ensure an electricity supply meeting the quality standards necessary for domestic and professional use (SMEs, independent professions).

SILENCER

SDMO® generating sets have moderate sound levels, sometimes equivalent to centralised air conditioning.

FUELS TO CHOOSE FROM

SDMO® generating sets run on **petrol, liquid propane gas, natural gas or diesel.** Gas generating sets reduce the pollutant emissions level, the sound level and extend the maintenance operation frequency. Others operate on diesel or unleaded petrol.



ADVICE FOR MAKING THE RIGHT CHOICE?

The recommendations below are for supporting the various target users in their choice of local generating set model. This guide is a useful means of supporting the pitch and improving efficiency.

STEP 1: SPECIFICATIONS OF THE INSTALLATION

Identify the voltage in force in the country concerned by the installation, and determine the power needed to ensure the power supply to electronic equipment.

Think about defining the capacity too: is the whole installation or only a part to be supplied?



STEP 2: CRITERIA FOR CHOOSING THE RIGHT GENERATING SET

CHOOSING THE RIGHT BACKUP GENERATING SET

<div>Long 12 hours to 3 days Start-up following mains outage</div>	INDUSTRIAL Automatic	INDUSTRIAL Automatic	INDUSTRIAL Automatic
	DIESEL SILENCE Automatic	DIESEL SILENCE RESIDENTIAL Automatic	DIESEL SILENCE RESIDENTIAL Automatic
	PERFORM Manual	TECHNIC PERFORM Manual or Automatic	TECHNIC DIESEL SILENCE Manual or Automatic
	Occasional: a few times a year	Frequent: several times a year	Very frequent: several times a month

STARTING MODE

MANUAL

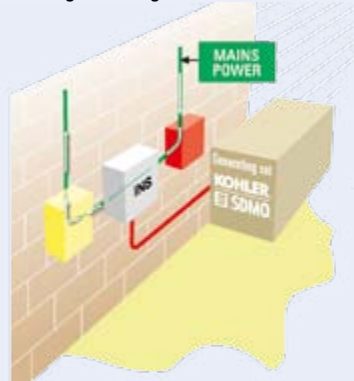
Starting up the generating set and manually switching the source. This provides some degree of flexibility: the genset is not exclusively used for back-up energy.

AUTOMATIC

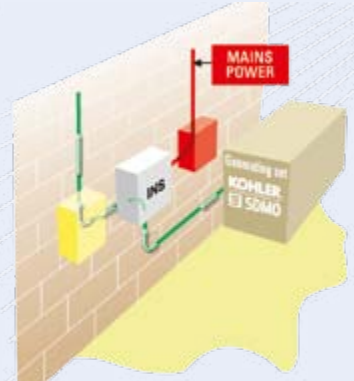
In case of a failure, the generating set will start up automatically.

Operating principle:

- The ATS* detects and monitors the power supply source.
- In case of a power cut, the ATS* sends the genset the starting order, changes power supply source and restores the electricity in a few seconds.
- When the mains power is fully restored, the ATS* switches power supply source, shuts down the generating set and continues to monitor the status of the installation electrical power supply.



Mains power operational
The mains power is working correctly. The ATS regulates the current to the home distribution box.



Mains power faulty
The mains power is faulty. The ATS detects a power failure, and sends the generating set the starting order. The ATS is then powered from the generating set, thereby restoring the electricity supply to the home.

* ATS: Automatic Transfer Switch.

INSTALLATION TYPE

FIXED INSTALLATION

The generating set can be installed either outside or inside, but in the latter case you need to provide a ventilated space with an exhaust gas evacuation nozzle.

MOBILE INSTALLATION

The generating set is stored inside, but remains mobile. Hence it can be used as an energy source where necessary (in the garden, on holiday, etc.), as well as in case of loss of domestic mains power.

Caution: when using due to mains power outage, always take the genset outside to ensure exhaust gas evacuation.

SOUND LEVEL

The noise disturbances produced by the generating set engine can be limited.

- Either the generator is low-power, in which case the noise is somewhat muted.
- Or the engine and exhaust assembly is insulated under a sound hood.

FREQUENCY OF USE

The frequency of use is a crucial factor.

It is used to define the most suitable fuel and coolant types.

INTENSIVE USE

- Fuel recommended: gas or diesel.
- Coolant system: air or water (longer term).

OCCASIONAL USE (for back-up)

- Fuel recommended: petrol.
- Coolant system: air.

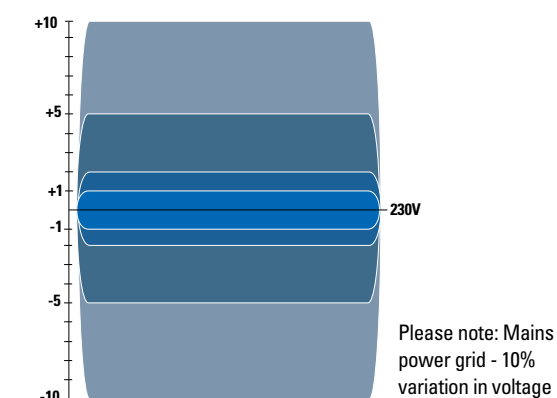
AN ADAPTED RESPONSE TO EVERY NEED

The larger alternator

Perfect for powering electronic equipment, the larger alternator provides a secure power supply on Perform 6500 and Perform 6500 XL generating sets: boasting a low harmonics level, it limits the variations in voltage and frequency of the current supplied, whilst absorbing impacts from the load at start-up.

Voltage regulation

This component electronically regulates the voltage by approximately +/- 2%, depending on the model. It has considerable advantages: it eliminates the risk of damage to high-tech appliances such as heating programmers, welding stations or certain electrical tools with electronic control devices.



- INVERTER technology - 1% variation in voltage
- AVR* technology - Variation de tension 2%
- Larger alternator - 5% variation in voltage
- Standard alternator - 10% variation in voltage

* Automatic Voltage Regulation.



WHAT POWER FOR

To determine the right genset model, list the electrical appliances in your professional premises or home: heating, air conditioning, medical assistance appliances, electronic equipment.

The guides opposite list the appliances most often used, and will help you make the power requirement calculation.



WHICH APPLICATIONS?

The Minimum Power Requirement (MPR)

Some appliances require higher power at startup than their actual running power requirement.

To calculate the generating set power (single-phase) required at start-up, apply the multiplier to the continuous power of your equipment, in the table opposite. For three-phase gensets, please consult your usual SDMO® contact.

To determine the minimum power for the appliances, refer to the manufacturer's technical documentation, or ask your usual KOHLER-SDMO® contact for advice.

Your equipment type is shown in the table opposite.

Once the usage type has been defined, and the power requirement determined, you can make a fully informed generating set selection.



BASED ON THE APPLIANCES YOU USE:

To help you select the right generating set for your needs, the guide opposite, provided for illustrative purposes, lists the appliances most often used with a generating set.

BASED ON THE MINIMUM POWER REQUIRED (MPR):

Some appliances require higher power at start-up than their actual running power requirement. You should take this into account when making your choice.

- To calculate the generating set power (single phase) you need at start-up, apply the coefficient given as a guide in the table below. For three phase generating sets, please consult your usual contact.
- For the minimum power requirement of your appliances, refer to the technical documentation supplied by the manufacturer or ask your KOHLER-SDMO agent for advice.

Find the right type of equipment in the table opposite.

Once you have defined the type of use and determined the power required, you then have all the information you need to select your generating set.

Calculation of MPR



You need to power a 500 W Mini-cold shelf.
You require a 2000 W generating set.

This is calculated as follows:
MPR x MPR coefficient (3 and 3.5)
Which gives:
500 W x 3 = 1500 W
500 W x 3.5 = 1750 W
(see table of coefficients opposite)

MINIMUM POWER REQUIRED BY TYPE OF APPLIANCE

RESISTIVE TOOLING



APPLIANCE	Appliance output* in Watts	MPR in Watts
Pancake griddle	3600	3600 to 4320
Mobile oven	2000	2000 to 2400
Electrical hob	2000	2500 to 3000
Kettle	2000	6000
Steamer	2000	2000
Boiler	500	2000
Low-consumption lighting	500	600
Electric oven	2500	2500 to 3000
Fryer	1600	1600
Toaster	900	900
Radiator	2000	2000 to 2400
Television (LCD)	500	500



LOW IMPACT TOOLING

Neon light	60	90 to 120
Coffee maker	1200	2 400
Microwave oven	800	2000
Hairdryer	1800	1800
Tumble drier	2000	3000
Electrical lawn mower	1500	3000



HIGH IMPACT TOOLING

Candy floss machine	1700	5100 to 5950
Air conditioning	3000	9000 to 10500
Freezer	300	2450
Mincer	1500	4500 to 5250
Mini-cold shelf	500	6000
Dough mixer	1000	3000 to 3500
Meat slicer	200	600 to 700
Vacuum cleaner	1400	4900
Freezer	300	2450
Washing machine	1000	3500
Refrigerator	300	2100

*Data provided as a guide.

Since electrical appliances in the workplace or at home never all have to operate the at the same time, the load on the KOHLER-SDMO® generating sets does not need to be equivalent to supplying all the installation's appliances simultaneously. Contact an KOHLER-SDMO® consultant technician to find out the exact electrical consumption of the installation. The fixed installation of the genset must be carried out by professionals.

FUEL PETROL AND MOBILE INSTALLATION

ADVANTAGES

- Simpler to use, easy to set up
- Versatile
- Fuel tank built into the generating set, i.e. compact and ergonomic

RANGE											
PERFORM 3000 TB UK	PERFORM 4500 TB UK	PERFORM 5500T	PERFORM 7500T	PERFORM 4500 GAZ TB UK	PERFORM 6500 GAZ TB UK	PERFORM 3000 XL TB UK	TECHNIC 6500 UK	TECHNIC 6500 E AVR UK	TECHNIC 6500 E AVR M UK	INVERTER PRO 2000 UK	INVERTER PRO 3000 E PRINDUS



SINGLE PHASE GENERATING SETS

TYPES	Max LTP (kW) ⁽¹⁾	Voltage regulation	Fuel tank (L)	Autonomy (Hours)	Guaranteed level of sound power (Lwa) in dB(A)	Acoustic pressure at 7 m in dB(A)	Brand	Type	HP at 3600 rpm	Weight in kg	Socket code ⁽²⁾	
PERFORM 3000 TB UK	3.0	Compound	4.1	3.2	95	65	KOHLER®	CH 270	6	45	P2P	- Not available. • As standard. (1) ISO 8528. (2) Refer to the description of the sockets on this page. For PERFORM GAZ models: the outputs (kW and kVA) are given for a GAS supply. If PETROL is to be used, refer to the outputs for the PERFORM models given in the table above. (3) Max LTP using GAS fuel. (4) The autonomy depends on the size of the gas canister.
PERFORM 4500 TB UK	4.2	Compound	7.3	3.5	96	69	KOHLER®	CH 395	8.5	61.5	P2E	
PERFORM 4500 GAZ TB UK	3.9 ⁽³⁾	Compound	-	.. ⁽⁴⁾	96	69	KOHLER®	CH 395	8.5	63	P2E	
PERFORM 6500 GAZ TB UK	5.8 ⁽³⁾	Oversized	-	.. ⁽⁴⁾	97	70	KOHLER®	CH 440	11.9	87	P2H	
PERFORM 3000 XL TB UK	3.0	Compound	13	10	95	68	KOHLER®	CH 270	6	46.5	P2O	
TYPES	Max LTP (kW) ⁽¹⁾	Voltage regulation	Fuel tank (L)	Autonomy (Hours)	Guaranteed level of sound power (Lwa) in dB(A)	Acoustic pressure at 7 m in dB(A)	Brand	Type	Electric starter	HP at 3600 rpm	Weight in kg	Socket code ⁽²⁾
TECHNIC 6500 UK	6.5	Oversized	18	6.9	97	70	KOHLER®	CH 440	-	11.9	88	P2F
TECHNIC 6500 E AVR UK	6.5	Oversized	18	6.9	97	70	KOHLER®	CH 440E	•	11.9	101	P2F
TECHNIC 6500 E AVR M UK	6.5	AVR	18	6.9	97	70	KOHLER®	CH 440E	•	11.9	101	P2F
INVERTER PRO 2000 UK	2.0	Inverter	4.2	4.7	89	61	YAMAHA®	MZ 80	-	-	21	P2R
INVERTER PRO 3000 E Prindus	3.0	Inverter	13	10	88	59	YAMAHA®	MZ 175	•	-	68	P2P

SOME GENERATORS ARE ALSO AVAILABLE IN THREE PHASE VERSION :
PERFORM 5500 T - PERFORM 7500 T



SOCKETS

Code	Specification
UK sockets	
P2B	1 115V 16A socket - circuit breaker + 1 230V 16A socket - circuit breaker
P2C	1 115V 16A socket - circuit breaker + 1 230V 16A socket - circuit breaker + 1 400V 16A socket - circuit breaker + APM303
P2E	1 115V 16A socket - circuit breaker + 1 115V 32A socket - circuit breaker + 1 230V 16A socket - circuit breaker
P2G	1 115V 16A socket - circuit breaker + 1 115V 32A socket - circuit breaker + 1 230V 16A socket - circuit breaker + 1 230V 32A socket - circuit breaker + hour meter + indicator
P2H	1 115V 16A socket - circuit breaker + 1 115V 32A socket - circuit breaker + 2 230V 16A sockets - circuit breaker
P2O	2 115V 16A sockets - circuit breaker + 1 socket 230V 16A - circuit breaker
P2P	2 sockets 230V 16A - circuit breaker + 1 socket 12V 12A - circuit breaker + indicator
P2Q	1 115V 16A socket - circuit breaker + 1 115V 32A socket - circuit breaker + 1 230V 16A socket - circuit breaker + 1 230V 32A socket - circuit breaker + hour meter + indicator + APM202
P2R	1 socket 230V 13A - circuit breaker + 1 socket 12V 12A - circuit breaker + indicator
P2S	2 115V 16A sockets - circuit breaker + 2 115V 32A sockets - circuit breaker + 2 230V 16A sockets - circuit breaker + 1 230V 32A socket - circuit breaker + hour meter + indicator + APM202

OPTION

Manual transfer switch

REF. MTS

This enables you to connect a generator to a dwelling and manually control, in total safety the source of current in the event of insufficient power or mains supply return. In the "mains" position, the dwelling is powered normally from the mains supply. In the event of a power cut, you simply start the generator so that it supplies power to the house wiring and turn the switch to the backup power position.

Accessory delivered separately



TWO
DIESEL LINES
IDEALLY
SUITED TO
INTENSIVE USE
(FIXED)

ADVANTAGES

- Easy to install
- More powerful, designed for intensive and frequent use
- Compact
- Better safety
- Fuel tank included within the dimensions

RANGE
DIESEL 6000 E SILENCE UK - DIESEL 6000 E SILENCE AVR
DIESEL 6500 TE SILENCE - DIESEL 6500 TE SILENCE AVR
DIESEL 10000 E SILENCE UK - DIESEL 10000 E SILENCE AVR
DIESEL 15000 TE SILENCE - DIESEL 15000 TE SILENCE AVR
XP-K6M-ALIZE - XP-T9KM-ALIZE - XP-K16H-ALIZE - XP-T16K-ALIZE
XP-K9-ALIZE - XP-T12K-ALIZE



TYPES	Max LTP (kW) ⁽¹⁾	Voltage regulation	Fuel tank (L)	Autonomy (Hours)	Guaranteed level of sound power (Lwa) in dB(A)	Acoustic pressure at 7 m in dB(A)	Brand	Type	Electric starter	HP at 3600 rpm	Weight in kg	Socket code ⁽²⁾
DIESEL 6000 E SILENCE UK	5.2	Compound	27	22.5	88	60	KOHLER®	KD 440 E	•	9.8	198	P2Q
DIESEL 6000 E SILENCE AVR	5.2	AVR	27	22.5	88	60	KOHLER®	KD 440 E	•	9.8	198	P1ZD
DIESEL 10000 E SILENCE UK	9	Oversized	27	12.9	97	69	KOHLER®	KD 425-2	•	19	269	P2S
DIESEL 10000 E SILENCE AVR	9	AVR	27	12.9	97	69	KOHLER®	KD 425-2	•	19	269	P1ZD

- Not available.
• As standard.
(1) ISO 8528.
(2) Refer to the description of the sockets on opposite page.

SOME GENERATORS ARE ALSO AVAILABLE IN THREE PHASE VERSION :
DIESEL 6500 TE SILENCE - DIESEL 6500 TE SILENCE AVR
DIESEL 15000 TE SILENCE - DIESEL 15000 TE SILENCE AVR



DIESEL 6500 TE SILENCE
DIESEL 6500 TE SILENCE AVR



DIESEL 15000 TE SILENCE
DIESEL 15000 TE SILENCE AVR



XP-T6KM-ALIZE



XP-K16H-ALIZE

TYPES	Max ESP** (kW) ⁽¹⁾	Max ESP** (kVA)(1)	Max PRP* (kW)(1)	Max PRP* (kVA)(1)	Guaranteed level of sound power (Lwa) in dB(A)	Acoustic pressure at 7 m in dB(A)	Make	Type	Speed (rpm)	Electric starter	Fuel tank (L)	Consumption at 75% load (L/h)	Weight in kg	Socket code ⁽²⁾
XP-K6M-ALIZÉ	6	6	5.5	5.5	83	54	KOHLER®	KDW1003	1500	•	50	2.3	390	P1C
XP-T9KM-ALIZÉ	8.6	8.6	7.8	7.8	87	58	Mitsubishi®	S3L2-SD	1500	•	50	3.2	544	P1C

SOME GENERATORS ARE ALSO AVAILABLE IN THREE PHASE VERSION :
XP-K9-ALIZE - XP-T12K-ALIZE - XP-K16H-ALIZE - XP-T16K-ALIZE

*PRP: Prime power available continuously in variable load applications for an unlimited number of hours per year in accordance with ISO8528-1. No overload available for this service.
**ESP: Emergency Standby Power available for supplying emergency power under variable load in accordance with ISO 8528-1, no overload available for this service.

OPTION

Automatic start panel

REF. VERSO M*/VERSO T*

Control unit for automatic start-up upon mains failure. In the event of a mains power cut, the automatic control unit sends a starting order to the generating set. As soon as the generating set is producing power, the control unit switches the power source using its source transfer switch. Similarly, when the control unit detects the mains power has returned, it switches back to this primary source and orders the generating set to stop. The differential protection option is required for EEC countries.

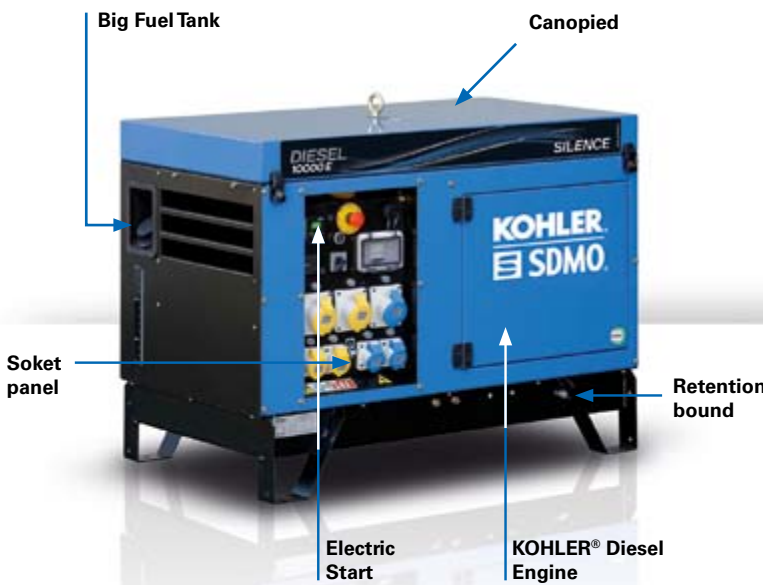
* Includes prewiring for auto-startup + auto pack (battery charger + preheating)



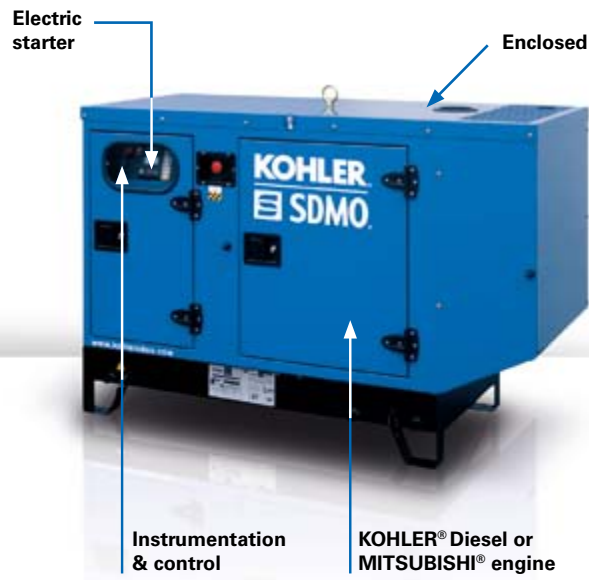
REF. VERSO M*

REF. VERSO T*

DIESEL SILENCE



INDUSTRIAL



SOCKETS

Code	Specification
UK sockets	
P2B	1 115V 16A socket - circuit breaker + 1 230V 16A socket - circuit breaker
P2C	1 115V 16A socket - circuit breaker + 1 230V 16A socket - circuit breaker + 1 400V 16A socket - circuit breaker + APM303
P2E	1 115V 16A socket - circuit breaker + 1 115V 32A socket - circuit breaker + 1 230V 16A socket - circuit breaker
P2G	1 115V 16A socket - circuit breaker + 1 115V 32A socket - circuit breaker + 1 230V 16A socket - circuit breaker + 1 230V 32A socket - circuit breaker + hour meter + indicator
P2H	1 115V 16A socket - circuit breaker + 1 115V 32A socket - circuit breaker + 2 230V 16A sockets - circuit breaker
P2O	2 115V 16A sockets - circuit breaker + 1 socket 230V 16A - circuit breaker
P2P	2 sockets 230V 16A - circuit breaker + 1 socket 12V 12A - circuit breaker + indicator
P2Q	1 115V 16A socket - circuit breaker + 1 115V 32A socket - circuit breaker + 1 230V 16A socket - circuit breaker + 1 230V 32A socket - circuit breaker + hour meter + indicator + APM202
P2R	1 socket 230V 13A - circuit breaker + 1 socket 12V 12A - circuit breaker + indicator
P2S	2 115V 16A sockets - circuit breaker + 2 115V 32A sockets - circuit breaker + 2 230V 16A sockets - circuit breaker + 1 230V 32A socket - circuit breaker + hour meter + indicator + APM202
European sockets	
P1L	2 230V 10/16A sockets - circuit breaker
P1J	1 230V 10/16A socket - circuit breaker + 1 400V 16A socket - circuit breaker
P1ZD	1 230V 10/16A socket - circuit breaker + 1 230V 16A socket - circuit breaker + 1 230V 32A socket - circuit breaker + hour meter + indicator + APM202
P1ZE	1 230V 10/16A socket - circuit breaker + 1 230V 16A socket - circuit breaker + 1 400V 16A socket - circuit breaker + hour meter + indicator + APM202

A GAS LINE FOR INTENSIVE USE (FIXED)

ADVANTAGES

- Economic and eco-friendly solution
- Low sound level



RANGE
RESA 14 EC
RESA 14 TEC

RESA 20 EC
RESA 20 TEC

SINGLE PHASE GENERATING SETS

TYPES	Natural gas			LPG ⁽²⁾			Guaranteed level of sound power (Lwa) in dB(A)	Acoustic pressure at 7 m in dB(A)	Brand	Type	Electric starter	Weight in kg
	Max ESP (kW) ⁽¹⁾	Max ESP (kVA) ⁽¹⁾	Max PRConsumption at 75% load (m3/h) ⁽²⁾ P* (kW) ⁽¹⁾	Max ESP (kW) ⁽¹⁾	Max ESP (kVA) ⁽¹⁾	Consumption at 75% load (kg/h) ⁽²⁾						
RESA 14 EC	10	10	4.2	11	11	3.55	92	64	KOHLER®	CH 740	•	178
RESA 20 EC	14	14	6.9	15	15	4.48	96	69	KOHLER®	CH 1000	•	234

SOME GENERATORS ARE ALSO AVAILABLE IN THREE PHASE VERSION :
RESA 14 TEC - RESA 20 TEC

• As standard.
(1) ISO 8528.
(2) LPG: 0.535 m³ = 1kg.

RESA 20 EC



KOHLER® Engine

OPTION

Automatic start panel

REF. RESINS AND RESIN-T (FOR RÉSIDENIELLE RANGE)
Automatic Transfer Switch upon 63A or 100A mains failure.
Accessories delivered separately for generating sets in the résidentielle range.



RESA 14 EC



ACCESSORIES & OPTIONS

GENERATING SET START MODE

Manual

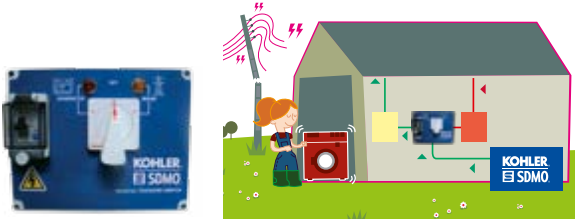
Starting up the generating set and manually switching the source. This provides some degree of flexibility: the genset is not exclusively used for back-up energy.

Manual transfer switch

REF. MTS

This enables you to connect a generator to a dwelling and manually control, in total safety the source of current in the event of insufficient power or mains supply return. In the “mains” position, the dwelling is powered normally from the mains supply. In the event of a power cut, you simply start the generator so that it supplies power to the house wiring and turn the switch to the backup power position.

Accessory delivered separately



Automatic

In case of a failure, the generating set will start up automatically.

Automatic start panel

REF. VERSO 50M 40A*

40A single phase mains failure automatic source transfer switch.

REF. VERSO 50M 100A*

100A single phase mains failure automatic source transfer switch.

REF. VERSO 50T 25A*

25A three phase mains failure automatic source transfer switch.

REF. VERSO 50T 40A*

40A three phase mains failure automatic source transfer switch.

* Includes battery charger - Requires a MODYS-equipped generating set. The differential protection option is required for EEC countries.

Accessory delivered separately

REF. VERSO M*/VERSO T*

Control unit for automatic start-up upon mains failure. In the event of a mains power cut, the automatic control unit sends a starting order to the generating set. As soon as the generating set is producing power, the control unit switches the power source using its source transfer switch. Similarly, when the control unit detects the mains power has returned, it switches back to this primary source and orders the generating set to stop. The differential protection option is required for EEC countries.

* Includes prewiring for auto-startup + auto pack (battery charger + preheating)

REF. RESINS AND RESIN-T (FOR RÉSIDENIELLE RANGE)

Automatic Transfer Switch upon 63A or 100A mains failure. Accessories delivered separately for generating sets in the résidentielle range



REF. VERSO M*



REF. VERSO T*

DIFFERENTIAL PROTECTION

REF. R03

Control unit including differential and working hours counter. Earth connection diagram with earthed neutral.

The R01 is installed as a fixed replacement for the RKD1 (excluding the Technic range). Factory-fitted only. The R03 includes a thermal circuit breaker.

REF. RESDIFF (FOR RESIDENTIELLE RANGE)

A device for protecting personnel and detecting leakage currents to earth from the electrical installation. It is fixed, and must be defined depending on the electrical installation, as 30 or 300 mA.

REF. R02B/R03B

Control unit including the tetrapolar differential switch in three phase (R03B), and bipolar differential switch in single phase (R02B). Control unit fitted as a fixed replacement for the RKD1 on the Technic range.

Factory-fitted only options

INSTRUMENTATION & CONTROL

REF. APM202

The APM202 instrumentation & control unit makes the equipment easy to operate, as well as performing an essential safety function. The 4-point connector enables easy connection of remote controls, such as VERSO 50 automatic control units.



SDMO ENERGY LTD

PORTABLE POWER & RENTAL POWER DIVISION

UNIT 5, ASTON WAY

MIDDLEWICH - CHESHIRE, CW10 0HS

Tel: 01606 838120

Fax: 01606 837863

Email: generator@sdmo.co.uk

Website: www.uk.kohlersdmo.com

SUBSIDIARIES

GERMANY

SDMO GMBH

TEL. +49 (0) 63 32 97 15 0

FAX +49 (0) 63 32 97 15 11

LATIN AMERICA

& CARIBBEAN

SDMO GENERATING SETS

TEL. +1 (305) 863 0012

FAX +1 (954) 432 8330

BELGIUM

SDMO NV/SA

TEL. +32 36 46 04 15

FAX +32 36 46 06 25

BRAZIL

SDMO MAQUIGERAL

TEL. +55 (11) 37 89 60 00

SPAIN

SDMO INDUSTRIES IBERICA

TEL. +34 (9) 35 86 34 00

FAX +34 (9) 35 86 31 36

UK

SDMO ENERGY LTD

TEL. +44 (0) 16 06 83 81 20

FAX +44 (0) 16 06 83 78 63

NETHERLANDS

SDMO NV

TEL.: + 32 3 646 04 15

FAX: +32 3 646 06 25

OFFICES

SOUTH AFRICA

SDMO SOUTH AFRICA

TEL. +27 (0) 8 32 33 55 61

FAX +33 (0) 1 72 27 61 51

ALGERIA

SDMO ALGIERS

TEL. +213 (0) 21 68 12 12

FAX +213 (0) 21 68 14 14

DUBAI

SDMO MIDDLE EAST

TEL. +971 4 458 70 20

FAX +971 4 458 69 85

EGYPT

SDMO CAIRO

TEL./FAX + 20 2 22 67 12 78

RUSSIA

SDMO MOSCOW

TEL./FAX +7 495 665 16 98

TOGO

SDMO WEST AFRICA

TEL. + 228 22 22 65 65

TURKEY

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SDMO Industries
Headquarters: 270 rue de Kerervern - 29490 Guipavas
SDMO Industries CS 40047 - 29801 Brest Cedex 9 - France
www.kohlersdmo.com

