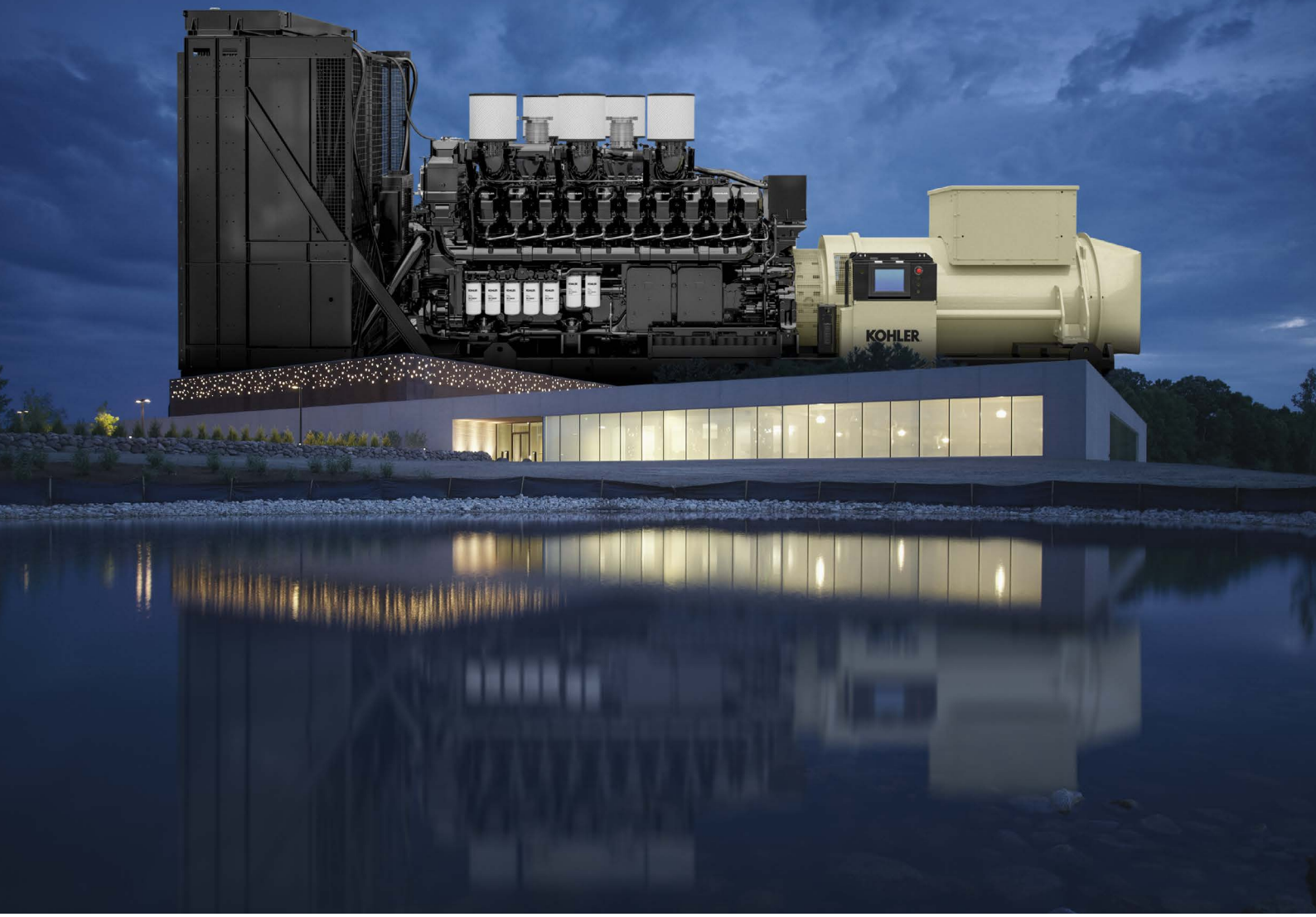
POWER SYSTEMS EMEA

INDUSTRIAL GENERATORS FULL LINE

6 kVA - 4 500 kVA

MK-IN-FL-BR-EN-221



KOHLER®

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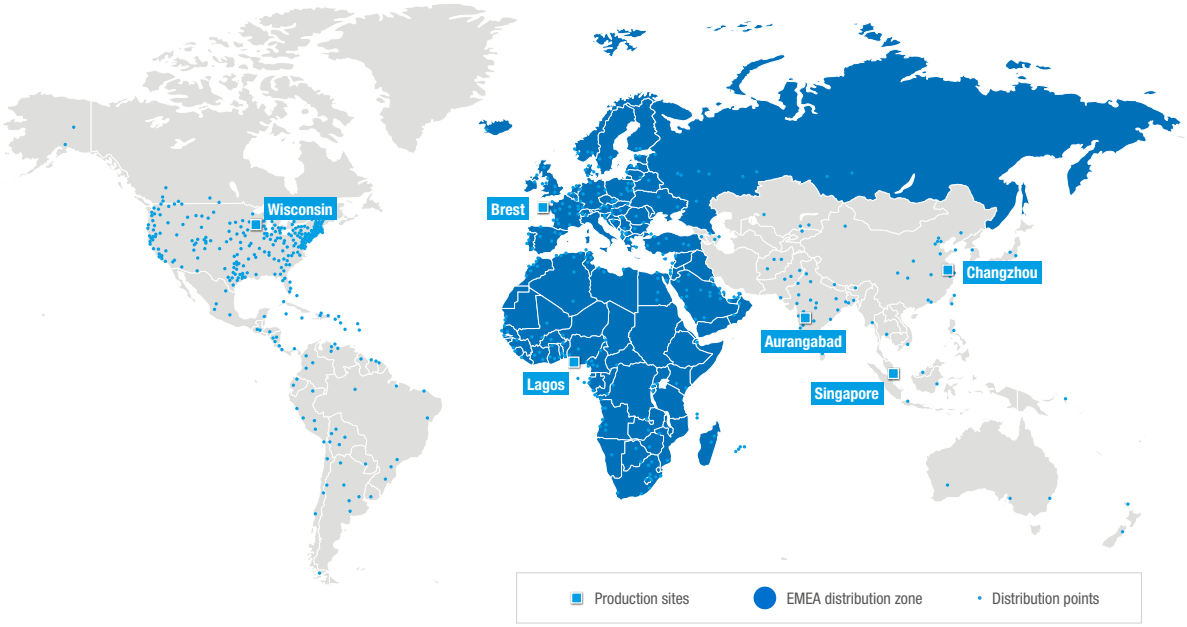
WE GIVE THE WORLD POWER

Founded in 1873 by an Austrian immigrant, John Michael Kohler, Kohler Co. is one of America's oldest and most successful private companies. Its head office is located in Kohler, Wisconsin in the United States. Kohler employs more than 35,000 people across 50 production sites worldwide.

Since day one, Kohler has set the standard in terms of design and technology, forging a global reputation for top-end products.

Today, we are one of the largest manufacturers of generators worldwide, with production plants located on four continents and extensive global sales, service and distribution networks. Wherever you are, you can always count on Kohler to provide smart, reliable engines, electricity generators and uninterruptible power supplies (UPSs).

From its headquarters and 42,800 m² production site in Brest, Kohler Power Systems EMEA supplies 35,000 generator sets ranging from 2 to 4,500 kVA to the EMEA countries each year..



SOLUTIONS
FOR ALL SECTORS

With our generator sets, ranging from 2 to 4,500 kVA, we provide energy solutions for different applications (continuous and backup production) and for all sectors: data centers, health, water treatment, telecommunications, construction, energy production, industry, transport, retail trade and distribution, etc.

OUR TRIED-AND-TESTED PROCESS:
TOTAL INTEGRITY AT EVERY STEP

From the initial contact to project planning, execution and maintenance, Kohler offers you complete end-to-end assistance.

Our dedicated project team evaluates the scope, demands and challenges of your project and provides you with full support and transparency at each stage. By working in close collaboration with you, we ensure that your project is equipped with reliable power supply systems tailored to your specifications and your budget.

SERVICE AND SUPPORT:
THE ASSISTANCE YOU NEED.
ANYTIME, ANYWHERE

With numerous direct service centers and more than 800 distributors worldwide, Kohler's customers are guaranteed an emergency service 24/7 and reactive after sales support. Our certified factory-based technicians enjoy regular training and are always ready to provide a troubleshooting service, advice and post-installation service and support.

WITH POWER COMES RESPONSIBILITY FOR TODAY'S GENERATORS. FOR TOMORROW'S GENERATIONS.

The world relies on resilient mission-critical power. And it can rely on Kohler to deliver it innovatively, responsibly, sustainably.

THE POWER TO CHANGE THE WORLD

Cleaner energy solutions are critical to a sustainable future. Developing the technologies to make them possible demands knowledge, creativity and long-term commitment. Kohler has the designers, engineers and vision to deliver innovation in mission-critical power generation. To find new ways to fight climate change. And to leave the world a better place. That's not just powering the energy needs of Data Centers, Telecoms, Healthcare and Water Treatment. It's powering progress.

COUNTDOWN TO NET ZERO

HVO GENERATORS. SUSTAINABLE, RELIABLE, AVAILABLE NOW.

Just one way Kohler is engineering simple and efficient alternatives that support customers on their journey to net zero emissions..

APPROVED FOR HVO RENEWABLE FUEL

- Simple and efficient
- **Up to 90%** carbon reduction
- Genuinely renewable energy
- Can be flexibly blended with diesel
- Suitable for extended storage

A NEW FUEL FROM THE WASTE STREAM

WITH MAJOR REFINERIES IN THE U.S. AND EUROPE

MEETS REGULATIONS, IMPROVES SUSTAINABILITY, SIMPLE, RISK-FREE

INTRODUCING NEXT-GENERATION RENEWABLE FUELS

Imagine a fossil-free renewable energy source that reduces net carbon dioxide emissions by as much as 90%. It is a liquid fuel that can be used in existing infrastructure, such as mission critical generators, without any modifications. And it has complete blending compatibility with standard diesel, providing end-users with total flexibility in their operations.

Such a compelling set of performance characteristics might seem too good to be true. But this renewable fuel is already available today – and its widespread adoption is set to accelerate the pace of decarbonization rapidly, supporting organizations embarking on a longer-term journey net zero emissions.

The fuel in question is hydrotreated vegetable oil (HVO), which is made from waste products and residues such as vegetable oils, animal fats and used cooking oils. The refining process means that HVO is a superior, cleaner-burning fuel than traditional first-generation biodiesel, and that feeds through into fewer emissions across its lifecycle. These credentials make HVO a renewable alternative to conventional fossil diesel – providing new environmentally-friendly options for the users of equipment such as diesel generators.

RoHS 2 COMPLIANT

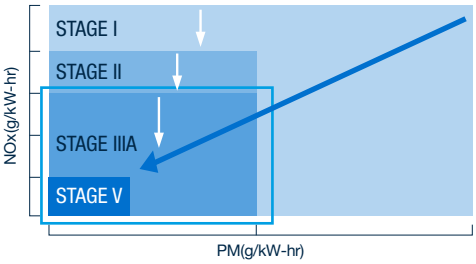
LIMIT THE USE OF HAZARDOUS SUBSTANCES TO PROTECT HUMAN HEALTH AND ENVIRONMENT

ROHS 2 directive 2011/65/EU aims to limit the use of certain hazardous substances (lead, mercury, cadmium, etc.) in Electrical and Electronic Equipment (EEE) sold in the European Union* (as well as Norway, Iceland, Turkey and Lichtenstein).

Thanks to the work and collaboration of all our suppliers, we are able to propose a complete industrial range compliant with this directive.

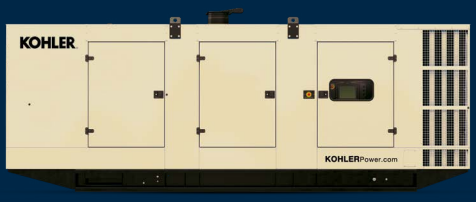
REDUCING POLLUTANT EMISSIONS WITHOUT COMPROMISING ON POWER STAGE IIIA AND STAGE V APPLICABLE ON THE INDUSTRIAL RANGE

KOHLER goes further to the regulation concerns all off road mobile motorized equipment in the UK & European Union market, especially mobile generating sets, by offering STAGE IIIA and STAGE V certified products in its industrial range. For construction companies, municipalities, police or fire stations, or any other use requiring road mobility. They are also suitable for stationary backup and production applications that require the lowest level of polluting emissions.



10 KOHLER FUNDAMENTALS

ACCESS THE HIGHEST LEVEL OF PERFORMANCE.



1 OPTIMIZED AND CERTIFIED SOUND LEVELS.

Our ranges of enclosures and containers are carefully studied to guarantee the best noise reduction performances. Our sound level measurements are carried out according to European Directives and ISO standards and are certified by CETIM (technical center for the mechanical industry).

2 POWER MAINTAINED EVEN IN EXTREME CONDITIONS

Our engineering department ensures the cooling systems are adapted perfectly, so that maximum power can be provided, even at high temperatures.

3 QUALITY TESTING

Each KOHLER generator is prototyped in the laboratory and tested in production, to ensure it operates exactly as it should.

4 HOMOLOGATION IN ACCORDANCE WITH THE STRICTEST STANDARDS

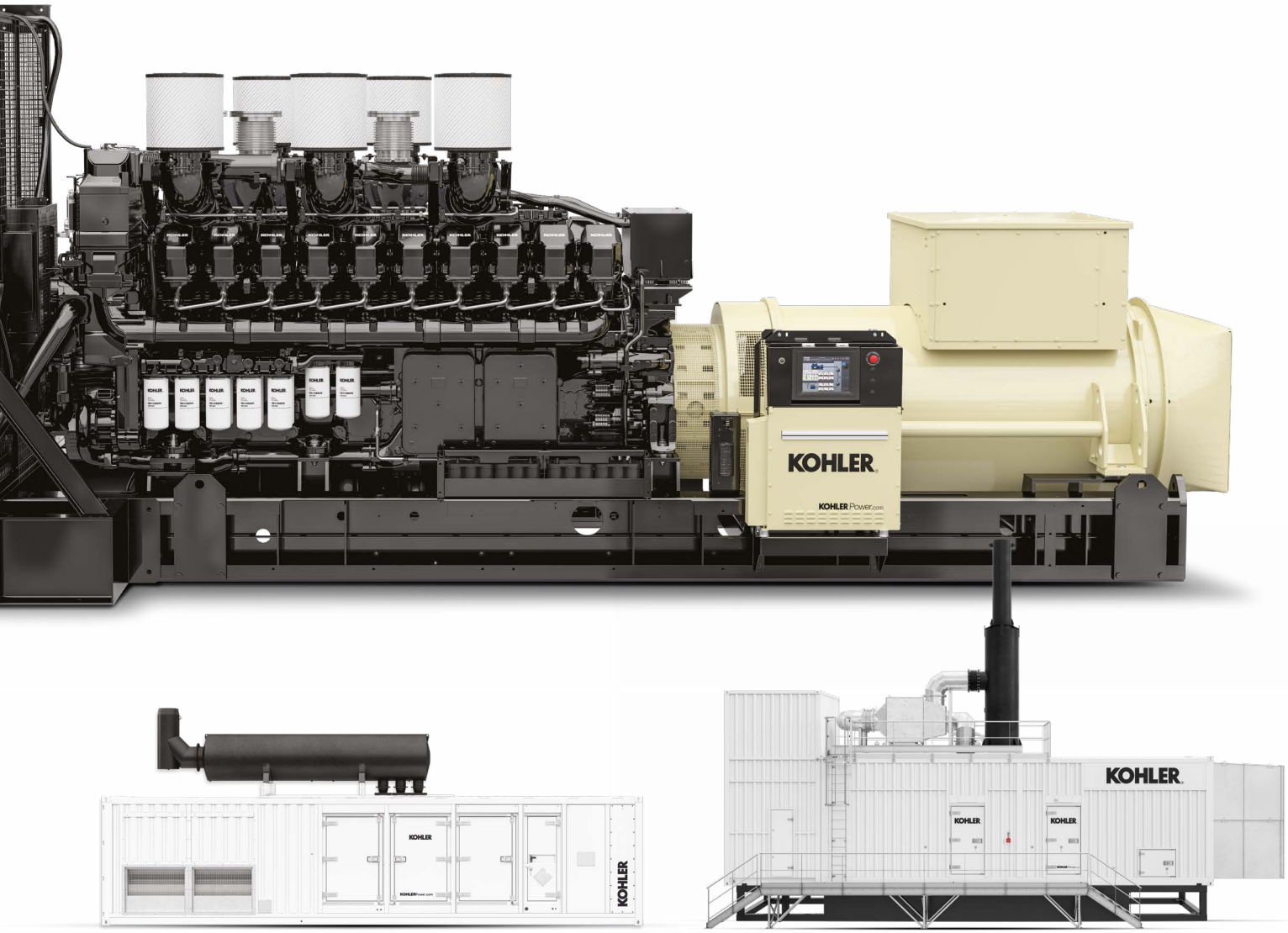
KOHLER does not compromise when it comes to the quality of its products and their compliance with standards. They are designed to meet even more demanding criteria than those set by the directives.

5 LOW FUEL CONSUMPTION

Our engineers and technicians develop tailored solutions to further improve consumption of fuel and the components chosen for the high performance they offer.

6 ROBUST BASE FRAMES AND HIGH-QUALITY ENCLOSURES

A high quality enclosure protects the generator's components whilst enabling it to run under the most extreme conditions (high temperatures, dusty or sandy environments, etc.). KOHLER base frames and enclosures are designed in France, and their suppliers selected according to very strict criteria.



7 QUALITY OF THE ELECTRICITY PRODUCED

A high quality current, in voltage and frequency in compliance with the ISO 8528-5 standard, provides a high starting and loading capacity for critical applications.

8 SAFETY OF PEOPLE AND INSTALLATIONS

KOHLER is developing solutions on a daily basis to further enhance the safety of the generator and its users (modular management of neutral connections, precision circuit breakers, engine preheating, etc.).

9 SMALL FOOTPRINT, HIGH PERFORMANCE

The footprint of a generator, in both surface area and volume, is key to ensuring its integration, regardless of space constraints. Thanks to their innovative engineering, KOHLER generators pack big performance into a compact frame.

10 REFERENCE IN STOCK ALL OVER THE WORLD

X-PRESS is a range of standard generators stocked across the world, which can be delivered to you within a very short lead time.

THE KOHLER DIFFERENCE

WE'RE HERE TO BE YOUR POWER PARTNER.

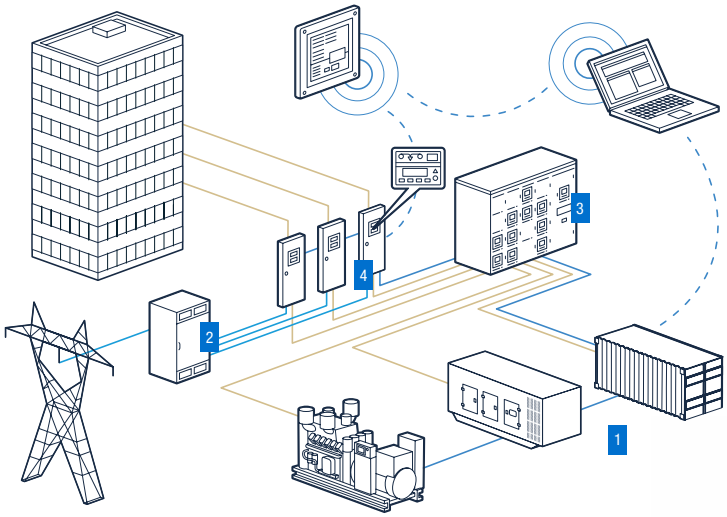
From initial contact through planning, project execution to maintenance, Kohler provides you with complete end-to-end support. Our dedicated project team assesses your project scope, requirements and challenges, and provides full support and transparency throughout every stage of the project. By working closely with you, we ensure that your project is equipped with reliable, custom-designed power systems tailored to your specifications and budget.

OUR CUSTOM PROCESS: START TO FINISH

This is where reliable products, collaboration and customization come into their own. Increasingly, engineering consultants charged with overseeing generator selection want to work with suppliers who can help smooth the sizing and selection process from start to finish. It requires dealing with a supplier who can offer access to a multi-disciplinary team – including engineering, tendering and sales – to help progress through to detailed designs.

TOTAL SYSTEM INTEGRATION

As a single-source provider, you can be confident that every power system features components designed, manufactured, and tested by Kohler. Total system integration assures you that no matter how large or complex the project, everything works together seamlessly—from packaged generators and transfer switches to paralleling switchgear and controllers.



1 KOHLER CONTROLLER
APM403 or APM802
controls paralleling breaker and enables load sharing and synchronization for up to eight generators. The APM802 can also handle load add/shed as well as number of generators online if used without a master control panel

2 MASTER CONTROL PANEL
Handles load add/shed, number of gensets online, monitors event logging and alarms

3 POWER DISTRIBUTION SWITCHBOARD
Accomodates paralleling and distribution breakers if not installed on the generator

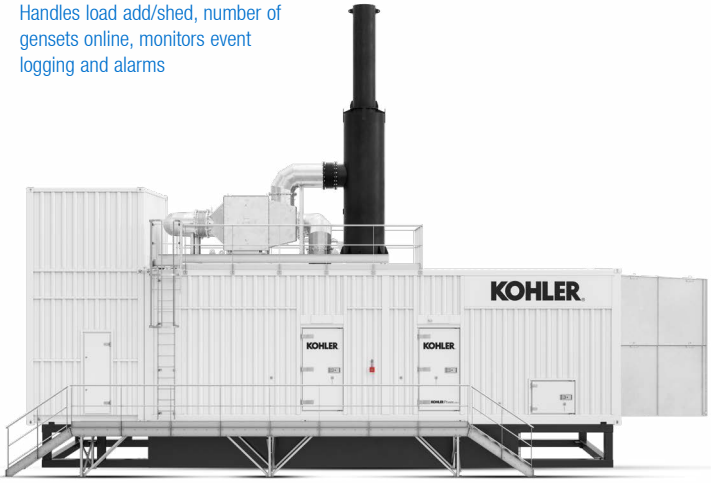
4 AUTOMATIC TRANSFER SWITCH
Intelligently selects the power source and transfers loads

CUSTOMIZED SOLUTIONS

Your power system is customized, built and tested by a dedicated team of experienced engineers and technicians, which means it can meet the most demanding specifications. Our team has designed power systems for hundreds of power plants. When you combine our industry experience with our agile manufacturing process, you get reliable, purpose-built solutions.

Kohler power system has developed a unique walk-in container solution for mission critical customers. This solution, designed by the power systems teams, allows us to integrate our entire KD range, up to the KD4500, into a modular design.

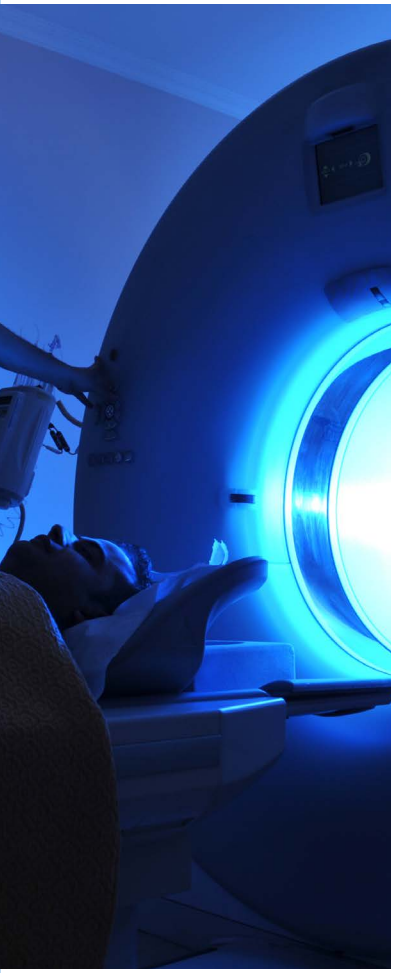
Based on oversized dimensions compared to our enclosure solutions, this solution allows easy access for maintenance, integration of many equipment and quick installation on site.



Walk-in container solution

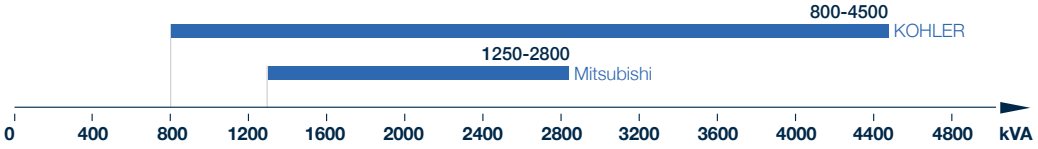
END TO END MANAGEMENT

From planning the design and selecting the equipment to testing and commissioning, we're focused on delivering reliable, custom-designed power systems tailored to your specifications. Agile manufacturing, rigorous testing and careful commissioning assure you of a solution that fits your business—and your budget.

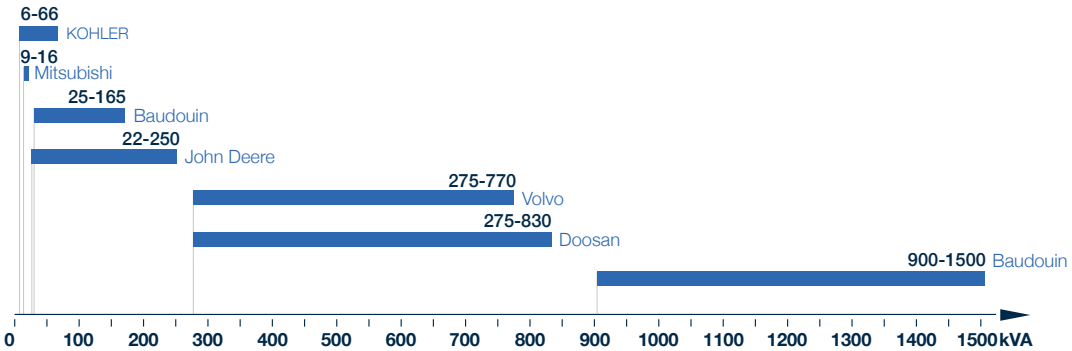


INDUSTRIAL GENERATORS

POWER SOLUTIONS | 50-60 HZ



RETAIL | 50-60 HZ



POWER SOLUTIONS GENERATORS

50 Hz - 60 Hz

OUR POWER GENERATOR RANGE

Our power generators provide a reliable source of energy for critical applications (data centers, airports, hospitals, water treatment plants, etc.) that must never be without power – no matter what happens. KOHLER's KD series generator meets the latest technology standards with a high-pressure common-rail fuel system, emissions-optimized configuration and hydrotreated vegetable oil (HVO) compatibility to reduce your greenhouse gas balance for a more sustainable world.

To meet all the challenges of the market, KOHLER also offers an alternative range with Mitsubishi engines.

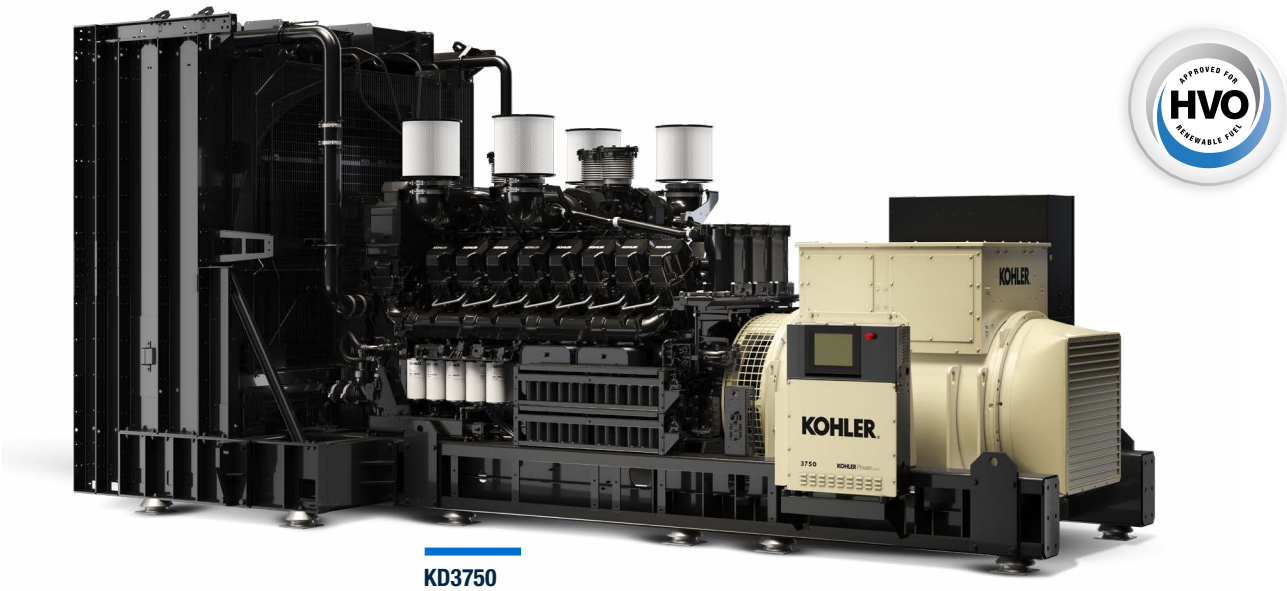
This range offers a winning combination of robust design and ease of use.

POWER SOLUTIONS
GENERATORS

50 Hz

INDUSTRIAL SOLUTIONS
FULL LINE

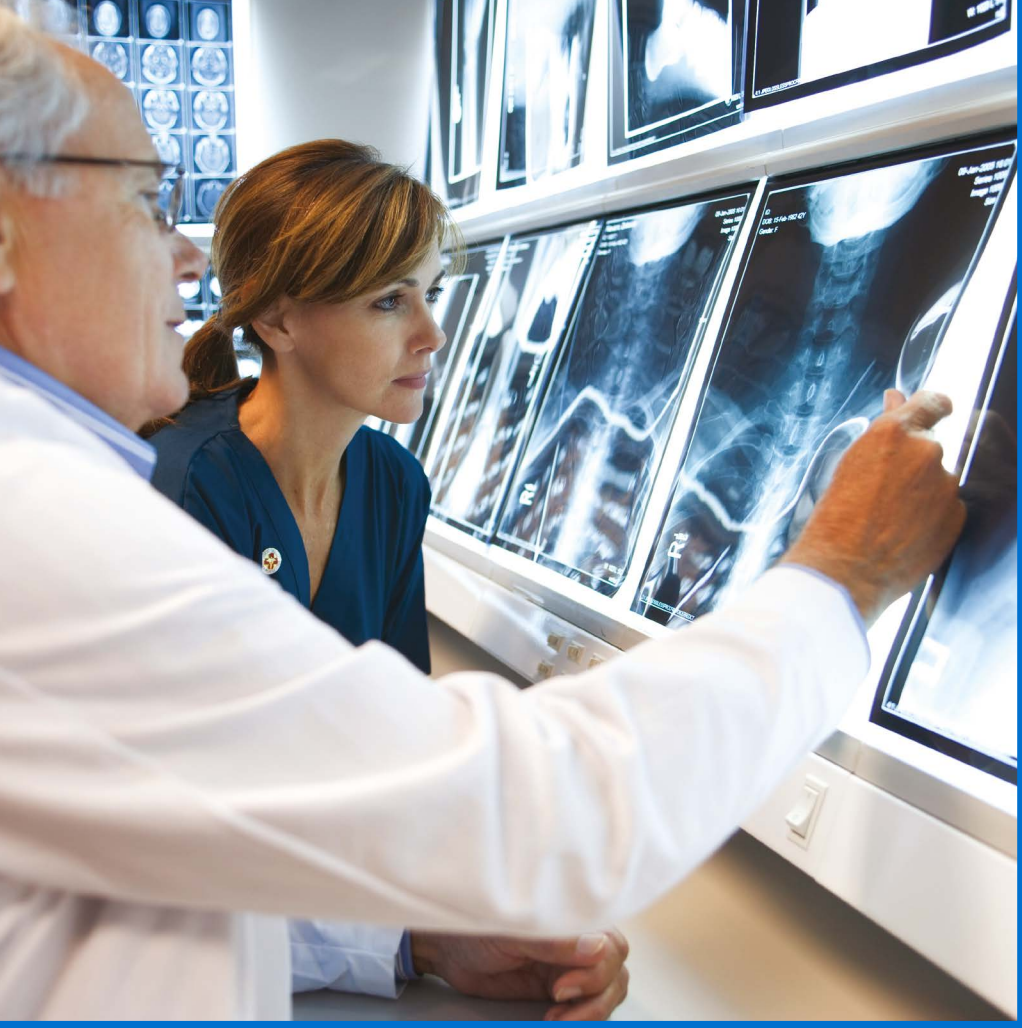
800 KVA
4500 KVA
50 Hz



KD3750
in open version

MODEL	STANDBY 50 HZ (kVA)	PRIME 50 HZ (kVA)	RPM	ENGINE MANUFACTURER	EMISSIONS	CONTROLLERS
KD800 (4)	800	727	1500	Kohler	Fuel Optimisation/Emission optimisation	M80-D/APM403/APM802
KD900 (4)	900	818	1500	Kohler	Fuel Optimisation/Emission optimisation	M80-D/APM403/APM802
KD1000 (4)	1000	909	1500	Kohler	Fuel Optimisation/Emission optimisation	M80-D/APM403/APM802
KD1100 (4)	1100	1000	1500	Kohler	Fuel Optimisation/Emission optimisation	M80-D/APM403/APM802
KD1250 (4)	1250	1136	1500	Kohler	Fuel Optimisation/Emission optimisation	M80-D/APM403/APM802
T1250	1250	1136	1500	Mitsubishi	Fuel Optimisation	M80/APM403/APM802
T1400	1403	1275	1500	Mitsubishi	Fuel Optimisation	M80/APM403/APM802
KD1400 (4)	1420	1291	1500	Kohler	Fuel Optimisation/Emission optimisation	M80-D/APM403/APM802
KD1500 (4)	1500	1364	1500	Kohler	Fuel Optimisation/Emission optimisation	M80-D/APM403/APM802
T1540	1540	1400	1500	Mitsubishi	Fuel Optimisation	M80/APM403/APM802
T1650C	1640	1500	1500	Mitsubishi	Emission optimization - Low NOx (<=2000mg)	M80/APM403/APM802
KD1650 (4)	1650	1500	1500	Kohler	Fuel Optimisation/Emission optimisation	M80-D/APM403/APM802
T1650	1650	1500	1500	Mitsubishi	Fuel Optimisation	M80/APM403/APM802
KD1800 (4)	1800	1636	1500	Kohler	Fuel Optimisation/Emission optimisation	M80-D/APM403/APM802
T1900	1900	1727	1500	Mitsubishi	Fuel Optimisation	M80/APM403/APM802
KD2000 (4)	2000	1818	1500	Kohler	Fuel Optimisation/Emission optimisation	M80-D/APM403/APM802
T2200C	2200	2000	1500	Mitsubishi	Emission optimization - Low NOx (<=2000mg)	M80/APM403/APM802
KD2250 (4)	2250	2045	1500	Kohler	Fuel Optimisation/Emission optimisation	M80-D/APM403/APM802
T2200	2255	2050	1500	Mitsubishi	Fuel Optimisation	M80/APM403/APM802
KD2500 (4)	2500	2273	1500	Kohler	Fuel Optimisation/Emission optimisation	M80-D/APM403/APM802
T2500	2500	2273	1500	Mitsubishi	Fuel Optimisation	M80/APM403/APM802
T2500C	2500	2273	1500	Mitsubishi	Emission optimization - Low NOx (<=2000mg)	M80/APM403/APM802
KD2800 (4)	2800	2545	1500	Kohler	Fuel Optimisation/Emission optimisation	M80-D/APM403/APM802
T2800	2800	2538	1500	Mitsubishi	Fuel Optimisation	M80/APM403/APM802
KD3100 (4)	3100	2818	1500	Kohler	Fuel Optimisation/Emission optimisation	M80-D/APM403/APM802
KD3300 (4)	3300	3000	1500	Kohler	Fuel Optimisation/Emission optimisation	M80-D/APM403/APM802
KD3500 (4)	3500	3182	1500	Kohler	Fuel Optimisation/Emission optimisation	M80-D/APM403/APM802
KD3750 (4)	3750	3409	1500	Kohler	Fuel Optimisation/Emission optimisation	M80-D/APM403/APM802
KD4000 (4)	4050	3680	1500	Kohler	Fuel Optimisation/Emission optimisation	M80-D/APM802
KD4500 (4)	4500	4090	1500	Kohler	Fuel Optimisation/Emission optimisation	M80-D/APM802

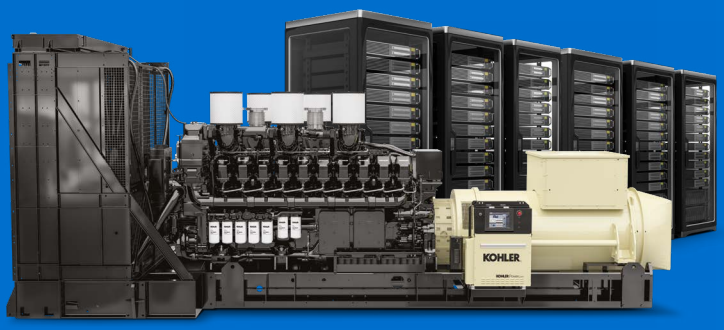
(4) exists in Fuel optimsation I Emission optimisation versions



RELIABLE POWER FOR CRITICAL INDUSTRIES

We deliver integrated industrial power systems for emergency, prime and continuous applications worldwide – from data centers and hospitals to water treatment facilities.

With a deep understanding of your industry, we excel in designing customized power systems that simplify your most complex challenges.



THE POWER THAT PROTECTS YOUR DATA

KOHLER generators are built to power data centers of all sizes in every location around the world.

LEARN MORE ABOUT OUR CAPABILITIES

POWER SOLUTIONS
GENERATORS

60 Hz

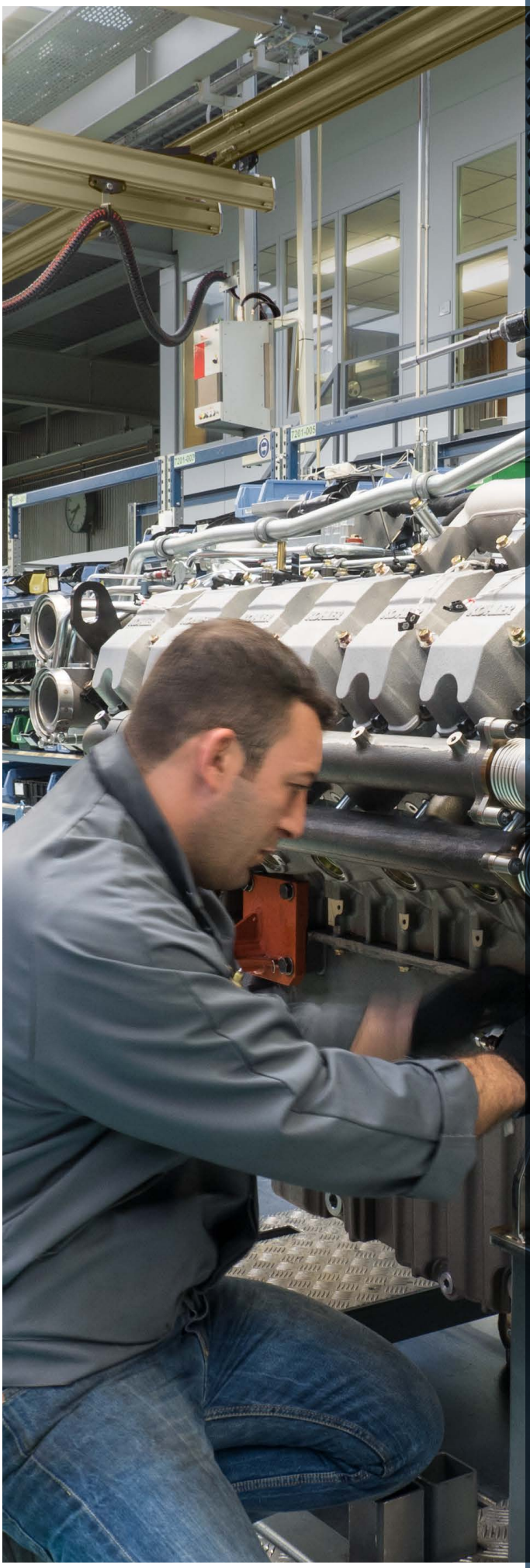
INDUSTRIAL SOLUTIONS
FULL LINE

800 KW
4000 KW
60 Hz

KD2000U
with CPU 40 container

MODEL	STANDBY 60 HZ (kW)	PRIME 60 HZ (kW)	RPM	ENGINE MANUFACTURER	EMISSIONS	CONTROLLERS
KD800U (4)	800	727	1800	Kohler	Fuel Optimisation/Emission optimisation	M80-D/APM403/APM802
KD900U (4)	900	818	1800	Kohler	Fuel Optimisation/Emission optimisation	M80-D/APM403/APM802
KD1000U (4)	1000	909	1800	Kohler	Fuel Optimisation/Emission optimisation	M80-D/APM403/APM802
T1200U	1200	1091	1800	Mitsubishi	Fuel Optimisation	M80/APM403/APM802
KD1250U (4)	1250	1136	1800	Kohler	Fuel Optimisation/Emission optimisation	M80-D/APM403/APM802
KD1350U (4)	1339	1218	1800	Kohler	Fuel Optimisation/Emission optimisation	M80-D/APM403/APM802
KD1500U (4)	1500	1364	1800	Kohler	Fuel Optimisation/Emission optimisation	M80-D/APM403/APM802
KD1600U (4)	1600	1454	1800	Kohler	Fuel Optimisation/Emission optimisation	M80-D/APM403/APM802
T1600U	1600	1454	1800	Mitsubishi	Fuel Optimisation	M80/APM403/APM802
KD1750U (4)	1750	1591	1800	Kohler	Fuel Optimisation/Emission optimisation	M80-D/APM403/APM802
KD2000U (4)	2000	1818	1800	Kohler	Fuel Optimisation/Emission optimisation	M80-D/APM403/APM802
T2000U	2000	1818	1800	Mitsubishi	Fuel Optimisation	M80/APM403/APM802
KD2250U (4)	2250	2046	1800	Kohler	Fuel Optimisation/Emission optimisation	M80-D/APM403/APM802
KD2500U (4)	2500	2273	1800	Kohler	Fuel Optimisation/Emission optimisation	M80-D/APM403/APM802
KD2800U (4)	2814	2558	1800	Kohler	Fuel Optimisation/Emission optimisation	M80-D/APM403/APM802
KD3000U (4)	3000	2727	1800	Kohler	Fuel Optimisation/Emission optimisation	M80-D/APM403/APM802
KD3250U (4)	3250	2954	1800	Kohler	Fuel Optimisation/Emission optimisation	M80-D/APM403/APM802
KD3500U (4)	3500	3180	1800	Kohler	Fuel Optimisation/Emission optimisation	M80-D/APM802/APM603
KD4000U (4)	4000	3640	1800	Kohler	Fuel Optimisation/Emission optimisation	M80-D/APM802/APM603

(4) exists in Fuel optimsation I Emission optimisation versions



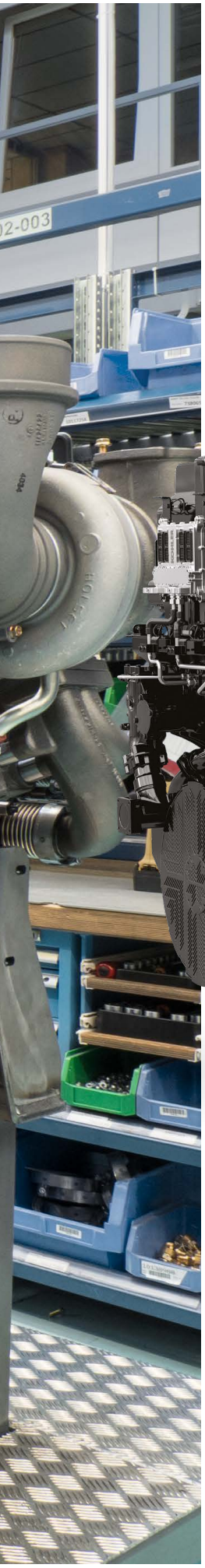
KOHLER ENGINES DEDICATED TO HIGH POWER GENERATING SETS

Engines dedicated to generating sets with the highest power density on the market: a KOHLER exclusive.

The world relies on resilient mission-critical power. And it can rely on Kohler to deliver it innovatively, responsibly, sustainably.

Our global team of engineers has developed a range of sleek, compact engines offering unrivaled performance. Designed specifically for generating sets, this range combines the highest power with superior efficiency.

These engines are manufactured in France and Switzerland in factories offering the highest level of quality, where each product is tested under rigorous operating conditions. The range comprises two K135 and K175 engine blocks which cover a wide power range: from 644 to 4290 kWm.

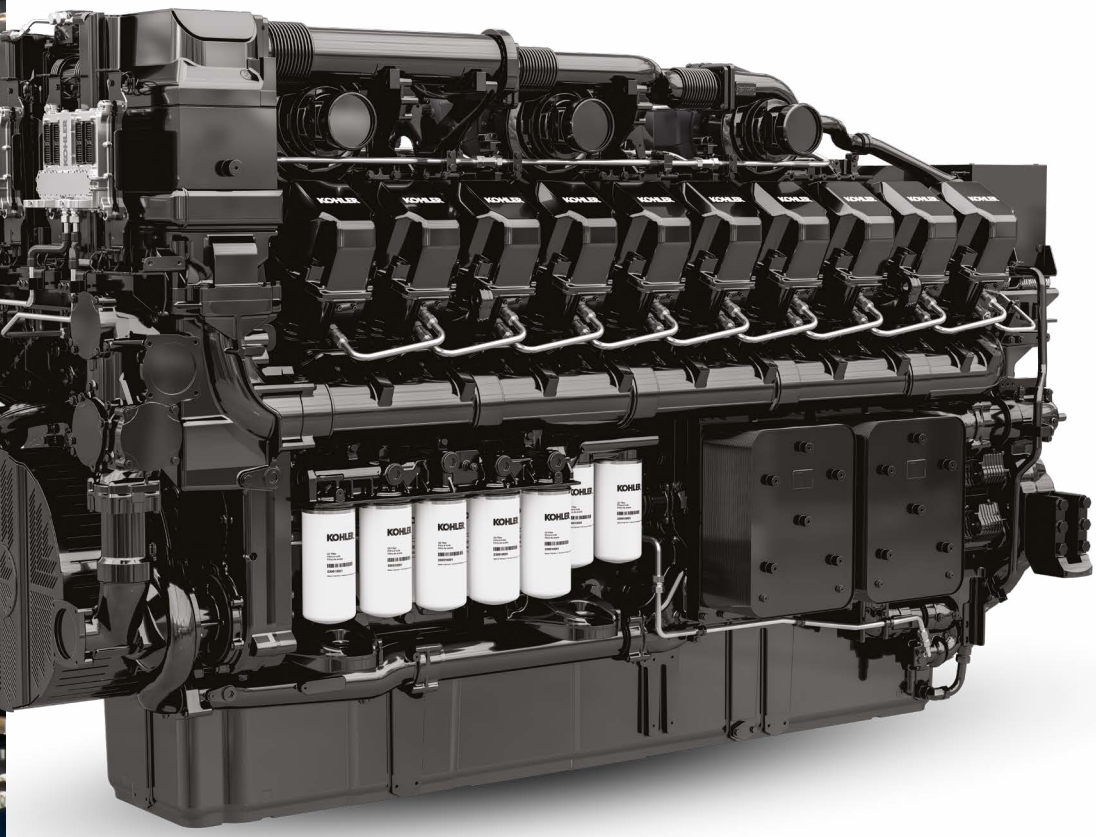


CONCENTRATED POWER

KOHLER engines offer the best power/compactness/consumption ratio on the market, guaranteeing optimal performance at low operating costs. This efficiency results from the perfect compatibility between the injection system and the engine control unit (ECU).

OPTIMAL CONTROL OF THE INJECTION SYSTEM

The high-pressure common rail fuel injection system reaches an injection pressure of 2200 bar. The higher this pressure, the more finely the fuel is vaporized ensuring more efficient ignition, combustion and exhaust. In conjunction with the other components, our system provides advanced engine performance and optimal efficiency.



OPTIMIZED VIBRATIONS AND SOUND LEVEL

Thanks to its rigid architecture and its optimized combustion, our engine operates smoothly with a low sound level and minimal vibrations, even under extreme operating conditions.Less friction and vibrations means better reliability, greater strength, a longer service life and minimized fuel consumption.

A ROBUST, RELIABLE DESIGN

The materials have been selected for their high-tech qualities and strength. The products are therefore highly robust, even for the most demanding projects.

A SLEEK, MODULAR DESIGN

The use of components common to all models means stock is rationalized, maintenance facilitated and training simplified. A sleek, minimal design ensures better accessibility to components for optimized maintenance. It all helps to reduce costs.

RETAIL
CONFIGURED GENERATORS

50 Hz - 60 Hz

Protect your infrastructure from power outages and invest in quality standby power to ensure business continuity.

KOHLER-configured generators are built to power any applications that require a backup power supply, such as retirement homes, shopping centers and tertiary buildings.

Configured generators
J200 in M139 enclosure

RETAIL
CONFIGURED GENERATORS

50 Hz

INDUSTRIAL SOLUTIONS
FULL LINE

6 KVA
1500 KVA
50 Hz

MODEL	STANDBY 50 HZ (kVA)	PRIME 50 HZ (kVA)	RPM	ENGINE MANUFACTURER	EMISSIONS	CONTROLLERS
K6M	6,3	5,7	1500	Kohler	Fuel Optimisation	M80/APM303/APM403
T9KM	8,6	7,8	1500	Mitsubishi	Fuel Optimisation	M80/APM303/APM403
K9	8,9	8,1	1500	Kohler	Fuel Optimisation	M80/APM303/APM403
K10M	9	8,2	1500	Kohler	Fuel Optimisation	M80/APM303/APM403
T12K	11,5	10,5	1500	Mitsubishi	Fuel Optimisation	M80/APM303/APM403
K12M	11,8	10,7	1500	Kohler	Fuel Optimisation	M80/APM303/APM403
T12KM	11,8	10,7	1500	Mitsubishi	Fuel Optimisation	M80/APM303/APM403
K12	12	10,9	1500	Kohler	Fuel Optimisation	M80/APM303/APM403
K12C5	12	10,9	1500	Kohler	Emission Optimisation - Stage V Certified	M80/APM303/APM403
K17M	15,5	14,1	1500	Kohler	Fuel Optimisation	M80/APM303/APM403
K16H	16	-	1500	Kohler	Fuel Optimisation	M80/APM303/APM403
T16K	16	14,5	1500	Mitsubishi	Fuel Optimisation	M80/APM303/APM403
K20C5	20	18,2	1500	Kohler	Emission Optimisation - Stage V Certified	M80/APM303/APM403
K21H	21	-	1500	Kohler	Fuel Optimisation	M80/APM303/APM403
K22	21,5	19,5	1500	Kohler	Fuel Optimisation	M80/APM303/APM403
J22	22	20	1500	John Deere	Fuel Optimisation	APM303/APM403
B25	25	23	1500	Baudouin	Fuel Optimisation	APM303
K26M	26	23,6	1500	Kohler	Fuel Optimisation	M80/APM303/APM403
K27	26,5	24,1	1500	Kohler	Fuel Optimisation	M80/APM303/APM403
K33	33	30	1500	Kohler	Fuel Optimisation	APM303/APM403
J33	33	30	1500	John Deere	Fuel Optimisation	APM303/APM403
K33C3	33	30	1500	Kohler	Emission Optimisation - Stage IIIA Compliant	APM303/APM403
K44C3	44	40	1500	Kohler	Emission Optimisation - Stage IIIA Compliant	APM303/APM403
J44	44	40	1500	John Deere	Fuel Optimisation	APM303/APM403
K44	44	40	1500	Kohler	Fuel Optimisation	APM303/APM403
B44	44	40	1500	Baudouin	Fuel Optimisation	APM303
J66	66	60	1500	John Deere	Fuel Optimisation	M80/APM303/APM403
J66C3	66	60	1500	John Deere	Emission Optimisation - Stage IIIA Compliant	M80/APM303/APM403
K66	66	60	1500	Kohler	Fuel Optimisation	APM303/APM403
J88	88	80	1500	John Deere	Fuel Optimisation	M80/APM303/APM403
J110	110	100	1500	John Deere	Fuel Optimisation	M80/APM303/APM403
J110C3	110	100	1500	John Deere	Emission Optimisation - Stage IIIA Compliant	M80/APM303/APM403
J130	130	118	1500	John Deere	Fuel Optimisation	M80/APM303/APM403
J165	165	150	1500	John Deere	Fuel Optimisation	M80/APM303/APM403
J165C3	165	150	1500	John Deere	Emission Optimisation - Stage IIIA Compliant	M80/APM303/APM403
B165	165	150	1500	Baudouin	Fuel Optimisation	APM303
J200	200	182	1500	John Deere	Fuel Optimisation	M80/APM303/APM403
J220	220	200	1500	John Deere	Fuel Optimisation	M80/APM303/APM403
J220C3	220	200	1500	John Deere	Emission Optimisation - Stage IIIA Compliant	M80/APM303/APM403
J250	250	227	1500	John Deere	Fuel Optimisation	M80/APM303/APM403
V275C2	275	250	1500	Volvo	Emission Optimisation - Stage II Compliant	M80/APM403/APM802
D275	275	250	1500	Doosan	Emission Optimisation - Stage II Compliant	M80/APM303/APM403/APM802
D300	300	273	1500	Doosan	Emission Optimisation - Stage II Compliant	M80/APM303/APM403/APM802
V350C2_VDE(2)	318	318	1500	Volvo	Emission Optimisation - Stage II Compliant	APM802
D330	330	300	1500	Doosan	Fuel Optimisation	M80/APM303/APM403/APM802
V350C2	350	318	1500	Volvo	Emission Optimisation - Stage II Compliant	M80/APM403/APM802
V400C2_VDE(2)	355	355	1500	Volvo	Emission Optimisation - Stage II Compliant	APM802
V400C2	390	355	1500	Volvo	Emission Optimisation - Stage II Compliant	M80/APM403/APM802
V440C2_VDE(2)	400	400	1500	Volvo	Emission Optimisation - Stage II Compliant	APM802
V440C2	440	400	1500	Volvo	Emission Optimisation - Stage II Compliant	M80/APM403/APM802
D440	440	400	1500	Doosan	Fuel Optimisation	M80/APM303/APM403/APM802
V500C2_VDE(2)	455	455	1500	Volvo	Emission Optimisation - Stage II Compliant	APM802
V500C2	500	455	1500	Volvo	Emission Optimisation - Stage II Compliant	M80/APM403/APM802
V550C2_VDE(2)	500	500	1500	Volvo	Emission Optimisation - Stage II Compliant	APM802
V550C2	550	500	1500	Volvo	Emission Optimisation - Stage II Compliant	M80/APM403/APM802
V550C3	550	500	1500	Volvo	Emission Optimisation - Stage IIIA Compliant	M80/APM403/APM802
D550	550	500	1500	Doosan	Fuel Optimisation	M80/APM303/APM403/APM802
V650C2_VDE(2)	591	591	1500	Volvo	Emission Optimisation - Stage II Compliant	APM802
D630	630	573	1500	Doosan	Fuel Optimisation	M80/APM303/APM403/APM802
V650C2	650	591	1500	Volvo	Emission Optimisation - Stage II Compliant	M80/APM403/APM802
V715C2_VDE(2)	650	650	1500	Volvo	Emission Optimisation - Stage II Compliant	APM802
D700	697	634	1500	Doosan	Fuel Optimisation	M80/APM303/APM403/APM802
V770C2_VDE(2)	700	700	1500	Volvo	Emission Optimisation - Stage II Compliant	APM802
V715C2	715	650	1500	Volvo	Emission Optimisation - Stage II Compliant	M80/APM403/APM802
V770C2	770	700	1500	Volvo	Emission Optimisation - Stage II Compliant	M80/APM403/APM802
D830	825	750	1500	Doosan	Fuel Optimisation	M80/APM303/APM403/APM802
B900(3)	900	800	1500	Baudouin	Fuel Optimisation	APM403
B1000(3)	1000	909	1500	Baudouin	Fuel Optimisation	APM403
B1100(3)	1125	1023	1500	Baudouin	Fuel Optimisation	APM403
B1250(3)	1250	1136	1500	Baudouin	Fuel Optimisation	APM403
B1400(3)	1400	1273	1500	Baudouin	Fuel Optimisation	APM403
B1500(3)	1513	1375	1500	Baudouin	Fuel Optimisation	APM403

(2) VDE = certified for grid code application according VDE-AR-N 4110
(3) Exists in 50 degrees version

MODULAR EQUIPMENT FOR GENERATING SETS: AN ADAPTED RESPONSE

For each configured generator, KOHLER offers a wide range of options to facilitate maintenance operations, enhance user safety and provide solutions for specific use requirements or unusual environments.

	KOHLER engine	MITSUBISHI engine	JOHN DEERE engine	BAUDOUIN engine	VOLVO engine	DOOSAN engine
Protection of hot parts	0	0	0	0	0	0
Fuell separator pre-filter	0	0	0	X	•	0
Battery isolating switch	0	0	0	X	0	0
Automatic pack	0	0	0	0	0	0
Electronic control device	0	0	0	X	•	•
Automatic filling kit	0(1)	0(1)	0(1)	X	0(1)	0(1)
Drainage pump	0	0	0	X	•	0
Analog measurements display	0	0	0	X	•	•
Oversized alternator	X	0	0(4)	X	0(4)	0(4)
Air discharge duct	0	0	0	X	0	0
9 dB(A) silencer in open version	•(2)	•(2)	•(2)	•(2)	•(2)	•(2)
High autonomy, double wall chassis	0	0	0	X	0	0
Base frame with 48-hour tank	0(3)	X	0	X	X	X
40 dB(A) silencer	0	0	0	0	0	0

• Standard
0 Optional
X Not available

(1) Not possible on 48-hour and double wall base frame
(2) 29 dB(A) and 40 dB(A) silencer available as an option
(3) above 33kVA with Kohler Engines and below 66kVA with John Deere Engine

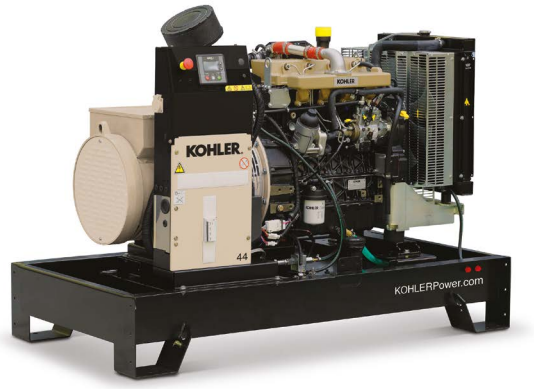
(4) Depending on the power node for enclosure configuration

RETAIL
CONFIGURED GENERATORS

60 Hz

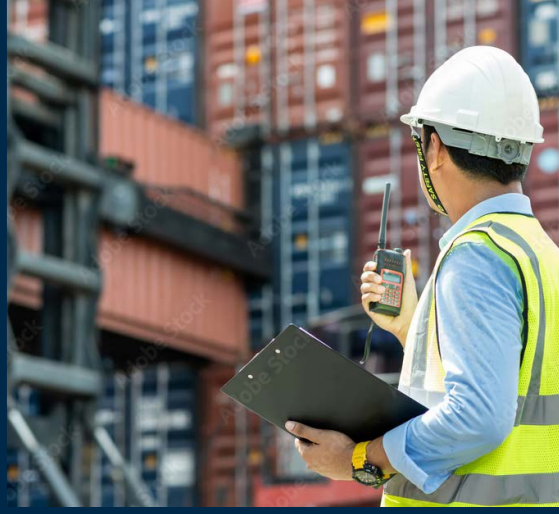
INDUSTRIAL SOLUTIONS
FULL LINE

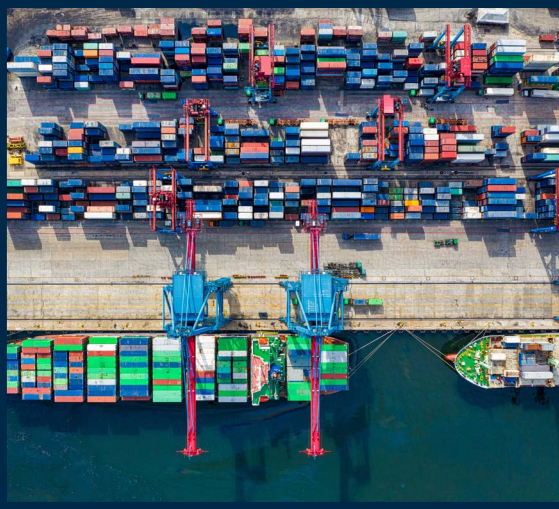
8 KW
760 KW
60 Hz



K 44
in open version

MODEL	STANDBY 60 HZ (kW)	PRIME 60 HZ (kW)	RPM	ENGINE MANUFACTURER	EMISSIONS	CONTROLLERS
K9UM	8	7,3	1800	Kohler	Fuel Optimisation	M80/APM303/APM403
K9U	8,4	7,6	1800	Kohler	Fuel Optimisation	M80/APM303/APM403
T11UM	10	9,1	1800	Mitsubishi	Fuel Optimisation	M80/APM303/APM403
K12UM	11	10	1800	Kohler	Fuel Optimisation	M80/APM303/APM403
T11U	11,2	10,2	1800	Mitsubishi	Fuel Optimisation	M80/APM303/APM403
K12U	11,6	10,6	1800	Kohler	Fuel Optimisation	M80/APM303/APM403
K16UM	15	13,6	1800	Kohler	Fuel Optimisation	M80/APM303/APM403
T16UM	15	13,6	1800	Mitsubishi	Fuel Optimisation	M80/APM303/APM403
K16U	15,5	14,1	1800	Kohler	Fuel Optimisation	M80/APM303/APM403
T16U	16	14,6	1800	Mitsubishi	Fuel Optimisation	M80/APM303/APM403
K20UM	18	16,4	1800	Kohler	Fuel Optimisation	M80/APM303/APM403
K20U	19	17,3	1800	Kohler	Fuel Optimisation	M80/APM303/APM403
J20UM	20	18,2	1800	John Deere	Fuel Optimisation	APM303/APM403
K25U	24,8	22,6	1800	Kohler	Fuel Optimisation	M80/APM303/APM403
J30UM	28	25,5	1800	John Deere	Fuel Optimisation	APM303/APM403
K30UM	30	27,3	1800	Kohler	Fuel Optimisation	APM303/APM403
J30U	30,4	27,6	1800	John Deere	Fuel Optimisation	APM303/APM403
K30U	30,7	27,9	1800	Kohler	Fuel Optimisation	APM303/APM403
J40UM	39	35,5	1800	John Deere	Fuel Optimisation	APM303/APM403
K40UM	40	36,4	1800	Kohler	Fuel Optimisation	APM303/APM403
J40U	40	36	1800	John Deere	Fuel Optimisation	APM303/APM403
K40U	40	36	1800	Kohler	Fuel Optimisation	APM303/APM403
J60U	58	52	1800	John Deere	Fuel Optimisation	M80/APM303/APM403
K60U	58	52	1800	Kohler	Fuel Optimisation	APM303/APM403
J60UM	60	55	1800	John Deere	Fuel Optimisation	M80/APM303/APM403
J80U	80	73	1800	John Deere	Fuel Optimisation	M80/APM303/APM403
J100U	100	91	1800	John Deere	Fuel Optimisation	M80/APM303/APM403
J120U	118	108	1800	John Deere	Fuel Optimisation	M80/APM303/APM403
J150U	149	135	1800	John Deere	Fuel Optimisation	M80/APM303/APM403
J175U	175	159	1800	John Deere	Fuel Optimisation	M80/APM303/APM403
J210U	210	191	1800	John Deere	Fuel Optimisation	M80/APM303/APM403
D250U	227	250	1800	Doosan	Emission Optimisation - Stage II Compliant	M80/APM303/APM403/APM802
V250U	234	213	1800	Volvo	Emission Optimisation - Stage II Compliant	M80/APM403/APM802
D300U	273	300	1800	Doosan	Fuel Optimisation	M80/APM303/APM403/APM802
V300U	300	273	1800	Volvo	Emission Optimisation - Stage II Compliant	M80/APM403/APM802
V350U	350	318	1800	Volvo	Emission Optimisation - Stage II Compliant	M80/APM403/APM802
D400U	364	400	1800	Doosan	Fuel Optimisation	M80/APM303/APM403/APM802
V400U	400	364	1800	Volvo	Emission Optimisation - Stage II Compliant	M80/APM403/APM802
D500U	454	500	1800	Doosan	Fuel Optimisation	M80/APM303/APM403/APM802
V500UC2	500	454	1800	Volvo	Emission Optimisation - Stage II Compliant	M80/APM403/APM802
D600U	546	600	1800	Doosan	Fuel Optimisation	M80/APM303/APM403/APM802
V550UC2	550	500	1800	Volvo	Emission Optimisation - Stage II Compliant	M80/APM403/APM802
V600U	600	546	1800	Volvo	Emission Optimisation - Stage II Compliant	M80/APM403/APM802
V640UC2	640	582	1800	Volvo	Emission Optimisation - Stage II Compliant	M80/APM403/APM802
D750U	691	760	1800	Doosan	Fuel Optimisation	M80/APM303/APM403/APM802





RETAIL OFFER

X-PRESS GENERATORS

STANDARD GENERATORS HELD IN STOCK.

Thirty 50 Hz models from 9 to 1500 kVA and twenty-six 60 Hz models from 9 to 750 kW in the industrial range are held in stock around the world and can be delivered to you within a very short lead time.

These generators are available in open or enclosed versions. Aftermarket options are available to order (silencers, differential protection, normal/emergency switches, Service First, etc.).

ORDER DIRECTLY BY MAIL

You can place your order directly by mail using the form attached to the stock list sent each week. Your order will be registered and shipped in the quickest possible time.

ORDER THROUGH OUR DISTRIBUTION NETWORK

Many items will be in stock near you. To find your nearest distributor, click here.

X-PRESS GENERATORS

Ordering a generator during the planning or production phase

Reduces the lead time to the minimum

Ordering a generator available on the platform

Means it is available immediately

50 HZ I 400 V
CONFIGURATION AVAILABLE

	9 to 250 kVA		275 to 830 kVA		900 to 1500 KVA	
	OPEN	SOUNDPROOFED	OPEN	SOUNDPROOFED	OPEN	SOUNDPROOFED
4-pole circuit breaker	•	•	•	•	•	•
Control unit	APM303	APM303	APM303/APM403	APM303/APM403	APM403	APM403
Card for measurement	•	•	•	•	•	•
Auto pack	•(1)	•(1)	•	•	•	•
Prewiring for auto start-up	•	•	•	•	•	•
CE label	•	•	•	•	•	•
Silencer	•	•	•	•	•	•

(1) For generators from 22 to 66 kVA with KOHLER engines and generators from 33 to 250 kVA with John Deere engines, the preheating wiring harness is supplied separately.
• Included
X Not available

60 HZ I 208 V
CONFIGURATION AVAILABLE

	11 to 60 kW SINGLE PHASE		19 to 210 kW THREE PHASE		250 to 750 kW THREE PHASE	
	OPEN	SOUNDPROOFED	OPEN	SOUNDPROOFED	OPEN	SOUNDPROOFED
Circuit breaker	2 poles	2 poles	3 poles	3 poles	3 poles	3 poles
Control unit	APM303	APM303	APM303	APM303	APM303/APM403	APM303/APM403
Card for measurement	•	•	•	•	•	•
Prewiring for auto start-up	•	•	•	•	•	•
Silencer	•	•	•	•	•	•
Analog pack	•(1)	•(1)	•(1)	•(1)	•	•

• Included X Not available (1) Except range with Mitsubishi engines

CONTROL UNITS

M80, APM303, APM403, APM802: A KOHLER EXCLUSIVE

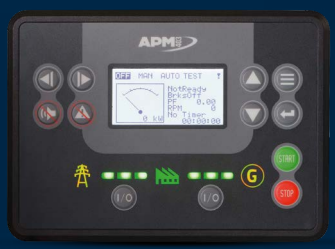
KOHLER offers a unique range of specific control units: M80, APM303, APM403 and APM802. These control units offer a wide range of possibilities, from simplified running to the option of managing the most complex coupling operations. They can be adapted to suit every need.

INDUSTRIAL RANGE	Engine	M80	APM303	APM403	APM802
RETAIL	Kohler	O(*)	•	O	X
RETAIL	Mitsubishi	O	•	O	X
RETAIL	Baudouin small	X	•	X	X
RETAIL	John Deere	O(*)	•	O(**)	X
RETAIL	Volvo	O	X	•	O
RETAIL	Doosan	O	•	O	O
RETAIL	Baudouin large	X	X	•	X
POWER SOLUTIONS	Mitsubishi	O	X	•	O
POWER SOLUTIONS	KD SERIES	O(***)	X	•	O

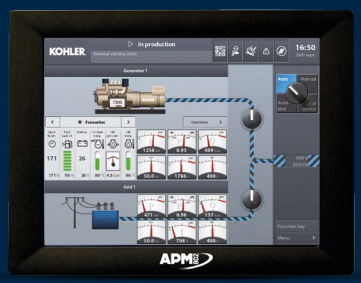
• Standard
X Not available
0 Optional
* up to 27 kVA for KOHLER engines and from 66 kVA for John Deere engines
** from 66 kVA for the paralleling version
*** M80-D version

Control units
M80-D

Control units
APM303



Control units
APM403



Control units
APM802

COMPARISON OF THE 3 CONTROL UNITS

SPECIFICATIONS	M80	APM303	APM403	APM802
DISPLAY				
Frequency	X	•	•	•
Phase to neutral voltages	X	•	•	•
Phase to phase voltages	X	•	•	•
Currents	X	•	•	•
Active/reactive/apparent power	X	•	•	•
Power factor	X	•	•	•
Mains power detection	X	X	•*	•
Battery voltage:	X (1) • (2)	•	•	•
Battery current	X	X	O	O
Start-up delay	X	•	•	•
Fuel level	X	•	•	•
Oil pressure	•	•	•	•
Coolant temperature	•	•	•	•
Oil temperature	X (1) • (2)	X	O	O
Total working hours counter	•	•	•	•
Partial working hours counter	X	X	•	•
Total active/reactive energy meter	X	•	•	•
Generator speed	•	•	•	•
FAULT INFORMATION (FAULT OR ALARM)				
Min/max alternator voltage	X	•	•	•
Min/max alternator frequency	X	•	•	•
Min/max battery voltage	X	•	•	•
Overload and/or short circuit	X	•	•	•
Active/reactive power return	X	X	•*	•
Oil pressure	X (1) • (2)	•	•	•
Coolant temperature	X (1) • (2)	•	•	•
Speed too high	X (1) • (2)	•	•	•
Speed too low	X	•	•	•
Low fuel level	X	•	•	•
Emergency stop fault	X	•	•	•
Non-starting fault	X	•	•	•
Charging alternator fault	X	•	•	•
Differential relay activation fault	X	O	•	•
General alarm	X	•	•	•
General fault	X	•	•	•
Sound alarm	X	O	O	•
Fully compatible with SAE J1939	X (1) • (2)	X	•	•

(1) M80
(2) M80-D

SPECIFICATIONS	M80	APM303	APM403	APM802
OPERATION				
Power ON	X	O	•	X
Manual generator starting	X	•	•	•
Automatic generator starting	X	•	•	•
Generator shutdown	X	•	•	•
Emergency stop	•	•	•	•
Menu navigation using color touch screen	X	X	X	•
Navigation in menu using button	X (1) • (2)	•	•	X
Speed adjustment	X	O	O** / •*	•
Voltage adjustment	X	O	O** / •*	•
Controller redundancy	X (1) • (2)	X	X	O
Dual frequency	X	X	•	O
Delayed start programming	X (1) • (2)	X	•	O
Multilingual using pictograms	X (1) • (2)	•	X	X
Multilingual text		X	•	•
CONNECTIVITY				
MODBUS TCP/IP	X	X	O	•
RS485 (MODBUS RTU protocol)	X	•	•	•
SNMP protocol	X	X	O	X
Local WEB access	X	X	O	X
Remote WEB access	X	X	O	X
USB port (config and software downloading)	X	•	•	•
Remote control HMI	X	X	X	O
COUPLING				
Stopped	X	X	X	•
Under load	X	X	•*	•
Continuity of the power plant in the event of a failure in communication between control units	X	X	•*	•
Power management of the plant “Start up and shutdown of one or several generators based on the power requested by the installation”	X	X	•*	•
Temporary coupling of grid Out/Return	X	X	•*	•
Power plant coupling to grid (temporary, permanent, etc.)	X	X	X	•
GENERAL				
Downloading of a customized configuration via USB port	X	•	•	•
Download of the firmware configuration + existing settings via USB port	X	•	•	•

• Standard
X Not available
0 Optional
* APM403P (paralleling version)
** APM403S (solo version)

M80

M80/ M80-D

The M80-D can be used as a terminal block for connection and as a dashboard (M80 version) with a direct read facility or as an instrument panel (M80-D version) with a highly intuitive LCD screen giving an overview of your generating set's basic parameters.

It is equipped with an emergency stop button and a customer terminal block, and has CE conformity.

FUNCTIONS

The screen (M80-D version) can display all of the engine's physical values:

- Oil pressure
- Coolant temperature
- Oil temperature
- Engine speed
- Battery voltage
- Charge air temperature
- Fuel consumption
- etc.

The M80-D also records several events to facilitate diagnostics.

APM303

THE ESSENTIALS MADE SIMPLE

The APM303 is a versatile unit equipped with a particularly intuitive LCD screen. It offers high-quality basic functions, allowing easy and reliable operation of your generator. This unit is mounted on a console on all generators designed for LV industrial applications with and without a source transfer switch.

BENEFITS

RS485 SUPERVISION

MODBUS RTU supervision is available as standard via an RS485 link. This link can be configured for the customer's installation.

1 Ergonomic, universal LCD screen

2 Alarm/fault report indicator

3 STOP/START/AUTO buttons and AUTO mode indicator light

4 Generating set operating indicator

5 Screen scroll keys

FUNCTIONS

- Manual and automatic mode (with auto start input)
- Generator protection and management
- Electrical measurements, including output (option)
- Mechanical value measurements (option)
- Automatic voltage and frequency detection
- Secure configuration on the APM303 or on PC

CONNECTIVITY

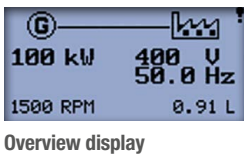
- 2 configurable reports
- MODBUS RTU RS485

OPERATION CONDITIONS

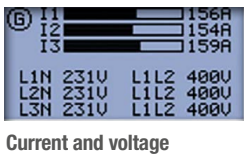
- Front of IP54 controller
- Protection against humidity and dust with tropicalized varnish

MEASUREMENTS

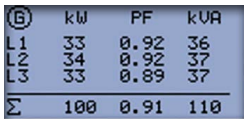
LCD display examples



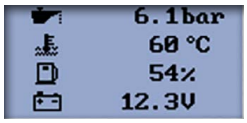
Overview display



Current and voltage

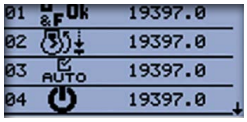


Outputs



Mechanical measurements

Counters



History and alerts

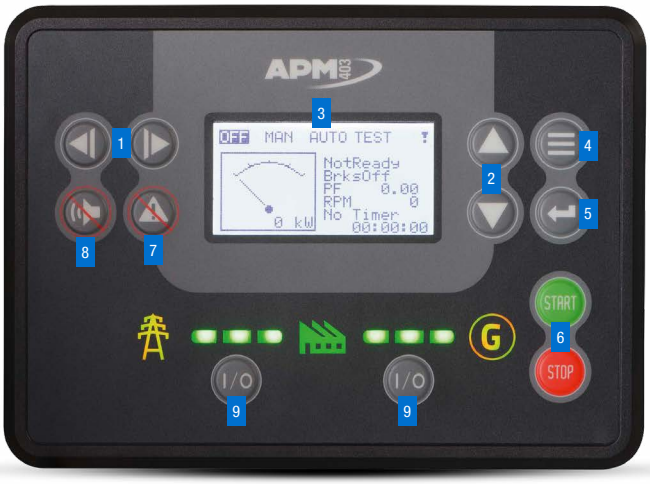
CONTROL
UNITS

APM403 - APM403P - AMP403S

APM403
INTUITIVE, SIMPLE AND CONNECTED

FOCUS APM403S

The **APM403S** is dedicated to SOLO operation only. No grid electrical measurements or associated circuit breaker control.



APM403P

1 Screen a/menu change keys

2 Screen scroll keys

3 Operation modes

4 Navigating between menus

5 Button for confirming, editing or returning to the home screen

6 Generator start/ stop button

7 Fault reset button

8 Horn deactivation button

9 Circuit breaker opening/closing buttons

FLEXIBLE CONFIGURATION

- Technical solution can be broken down for multi-configuration – SOLO or PARALLEL OPERATION (up to 8 generators)
- Specific application variables can be customized.

INTUITIVE NAVIGATION AND SIMPLIFIED GENERATOR OR POWER PLANT OPERATION

- Multilingual support
- Simple, intuitive configuration specific to operating scenarios

FLEXIBLE COMMUNICATION TOOLS

- Remote configuration and supervision thanks to the WEBSUPERVISOR application (optional)
- Standard communication tools:
  - CAN USB Host, USB device, RS485
  - MODBUS, RTU
- Optional:
  - 4G, Ethernet, GPRS, Airgate
  - TCP/IP, SNMP protocol

APM802

DEDICATED TO POWER PLANT MANAGEMENT

Fully developed by KOHLER, the APM802 command/control system is specifically designed for operating and monitoring power plants for hospitals, data centers, banks, the oil and gas sector, industries, IPP, rental, mining, etc. The human machine interface, created in collaboration with a company specializing in interface design, facilitates operations via its large touch screen. The pre-configured system for power plant applications features a brand new customization function that complies with the international standard IEC 61131-3..

BENEFITS

INTUITIVE AND ERGONOMIC TO USE

The ergonomics of the APM802 has been carefully designed in conjunction with users to ensure optimum user comfort. The operator is guided through how to operate the product according to their access level, making it easy to get started and reducing the risk of errors.

1 Generator display

2 Display of installation and mechanical values of the genset

3 Display of generator electrical values

4 Display of power grid electrical values

5 Operator and specialist access:
- curves
- settings
- history
- configuration

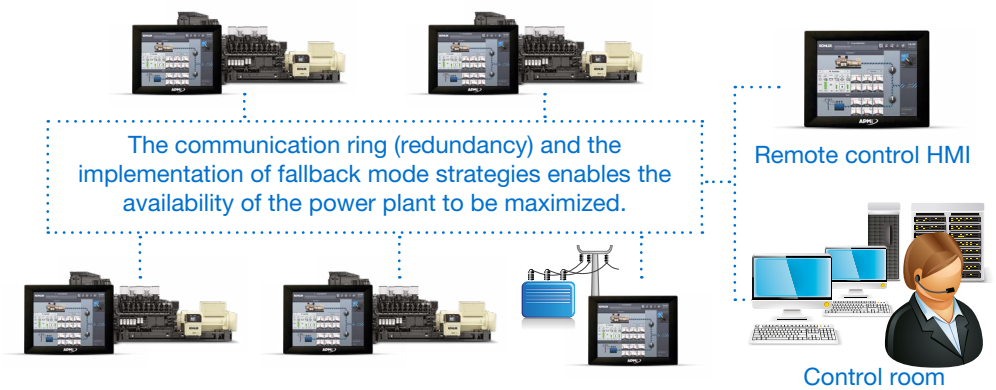
6 Control and position of circuit breakers

7 Generator control (operating modes)

8 User access:
- shortcuts
- maintenance
- alarms

THE APM802 FOR ENHANCED COMMUNICATIONS

Communication via the APM802 guarantees a high level of equipment availability and facilitates the remote control of the HMI to enhance its use. Additionally, various connections can be made via the Ethernet, using fiber optics or combined with copper wire.
For full control of risk management, the system communications are separate from the external communications.



INTUITIVE AND ERGONOMIC TO USE

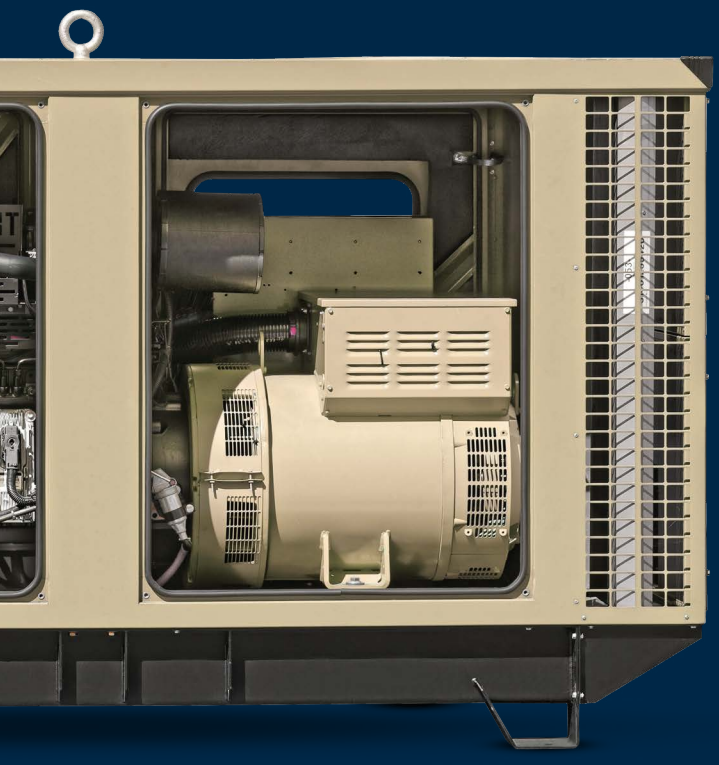
The ergonomics of the APM802 has been carefully designed in conjunction with users to ensure optimum user comfort. The operator is guided through how to operate the product according to their access level, making it easy to get started and reducing the risk of errors.

ENCLOSURES

HIGHEST-QUALITY COMPONENTS

The service life of the electrical generating set is optimized, thanks to the high quality of its enclosure and base frame. These protect its components and ensure it operates correctly, even in the most extreme conditions (e.g., high temperatures, dust, humidity, sand). Made from carefully selected materials, they are subjected to numerous tests to ensure their resistance against bad weather and difficult climate conditions.

KOHLER Power Systems EMEA selects its base frames and enclosures according to very strict criteria. KOHLER's design teams can offer you the best enclosure design, with the aim of optimizing the performance of generating sets while also offering enhanced ergonomics, a more compact design and greater modularity.



STANDARD FEATURES

High-quality materials

- Enclosure made from European grade electro-galvanized steel
- Base frame with two coats of paint
- Optimized design protects against corrosion (preventing water ingress and stagnation)
- Highly durable QUALICOAT-certified epoxy paint, specially developed for KOHLER

Numerous resistance tests to ensure an optimum service life

- Enclosures and base frames tested and analyzed by the French Corrosion Institute
- Enclosures guaranteed to withstand the most extreme conditions with exposure to salt spray (according to ISO12944 standard)
- Monthly conformity tests according to requirements via supplier samples
- Annual UV resistance testing
- Evaluation of corrosion resistance and spread prevention
- 100% of tanks are tested for permeability, to prevent any risk of leaks

Safety of people and property

- Electrical continuity ensured for the enclosure/base frame assembly
- Personal protection ensured by protective grilles
- Hot and rotating parts of the enclosures meet the strictest standards (machinery directive 2006/42/EC)
- Ergonomic access to allow easy maintenance and connection
- Base frame with retention to protect the environment
- Stainless IP64 locks
- Modular circuit breaker adapted to the short-circuit current of the generating set.

9 KVA

1540 KVA

Enclosure
M126

Enclosure
M139

Enclosure
M227

Enclosure
M428

Power (kVA)	Enclosure	Engine manufacturer	Acoustic pressure level @7m in dB(A)	Sound power level guaranteed (Lwa)
9-27	**M126**	KOHLER Engines/Mitsubishi	54-67	84-96
22-66	**M137**	KOHLER Engines/John Deere	62-66	91-93
66-130	**M138**	John Deere	62-68	92-97
165-250	**M139**	John Deere	67-71	95-97
275-300	**M227**	Volvo/Doosan	67-72	97-102
330-500	**M228**	Volvo/Doosan	67-72	97-102
440-550	**M229**	Volvo/Doosan	72-75	102-105
550-830	**M230**	Volvo/Doosan	70-78	100-108
800-1100	**M427**	KD SERIES/Baudouin	73-78	104-108
1250-1540	**M428**	KD SERIES/Mitsubishi	75-80	105-111

Enclosures
M139

CONTAINERS

ISO CONTAINERS

ISO containers are adapted for emergency applications with no harsh environmental constraints.

Available in 20- and 40-foot High Cube versions

CSC* certified

Adapted to standard environments

ADVANTAGES

- Flexible integration
- Available in Silent and Super Silent versions

CPU CONTAINERS

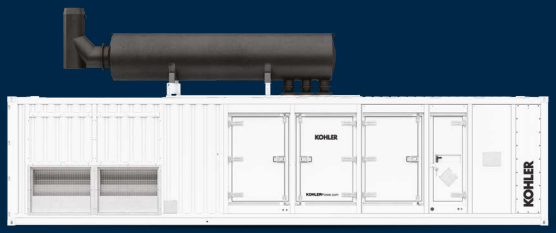
CPU-type containers are designed for the most demanding environments. Robust and modular, they are specially conceived to meet the very stringent constraints of production applications.

Available in 40- and 45-foot High Cube versions

40-foot version is CSC certified*

Double maintenance door

Suited to harsh environments (heat, dust)



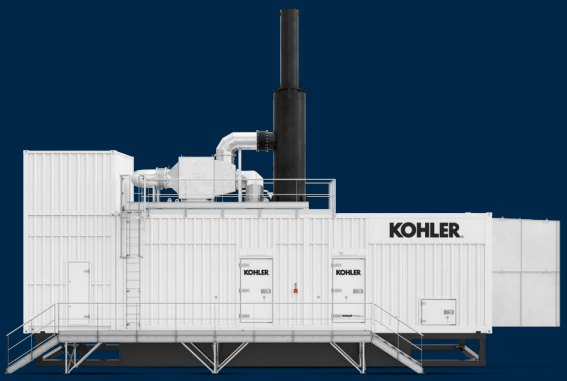
ADVANTAGES

- Low noise level
- Simplified maintenance
- No loss of power up to 40 °C
- Accessibility of command/control and power supply devices
- Short production lead times
- Available in Silent and Super Silent versions

WALKIN ENCLOSURES

Directly inspired by data center customers, KOHLER's walk-in enclosures combine performance, reliability, strength, safety, modularity and competitiveness.

Suited to mission critical applications (Data Centers)



ADVANTAGES

- Optimal noise reduction
- Maximum interior accessibility for maintenance
- Very fast installation on site with your pre-connected, pre-tested options
- Wide range of options or specific adaptations to meet your needs

*The International Convention for Safe Containers (CSC) is a regulation which ensures that containers used for transporting goods retain the specifications required to "maintain a high level of safety of human life in the handling, storage and transport of containers" over time.

VERSATILE RANGE
OF SOUNDPROOFED CONTAINERS

You're faced with many installation constraints, and you want a turnkey solution. Our container solutions are adapted to meet all your needs. The containers can be equipped with many options, from a built-in tank to a cooling system for high temperatures, or an acoustic silencer for low noise. Our sales and engineering teams can work with you to define the best solution. Pre-assembled and factory tested, these containers offer an economical solution and are delivered ready to use.

STANDARD EQUIPMENT AND OPTIONS FOR CONTAINERS

	SILENT		SUPER SILENT	
	ISO20 SI	**CPU40 SI / CPU45 SI**	**ISO20 SSI**	**CPU40 SSI / CPU45 SSI**
GENERATING SET				
Complies with CSC certification	•	•(6)	•	•(6)
Base member	•	•	•	•
Starter motor, charging alternator	•	•	•	•
Batteries filled with electrolyte	O	O	O	O
Standard air filter	•	•	•	•
Oil drainage pump	•	•	•	•
FILTRATION				
Reinforced fuel filtration	X	O	X	O
Air filter for dusty environments	X	O	X	O
CONTAINER SPECIFICATIONS				
High performance 30 dB(A) silencer	•(1)	•(2)	•(1)	•(2)
Floor	Steel sheet	Steel sheet	Steel sheet	Steel sheet
Number of side doors	2	3 + 2 double	2	3 + 2 double
Galvanized air outlet rain grille	O	X	O	X
Air outlet protective rain grille	•	•	•	•
Safety lighting and shut-off valve	O	O	O	O
Exhaust outlet on clamp	O	O	O	O
RAL 9010 white painted finish for container	•	•	•	•
Special color from list	O	O	O	O
Power cable outlet on lower section	•	•	•	•
FUEL				
Retention container under genset assembly	•	•	•	•
500-liter base frame fuel tank	•	X	•	X
Tank on 500-liter container	X	•	X	•
Tank on 1000-liter container	X	O	X	O
1500-liter base frame tank(4)	O	X	O	X
Automatic fuel filling kit 1 pump	•	•	•	•
Automatic fuel filling kit 2 pumps	X	O	X	O
CE compliance of the control unit	•	•	•	•
M80-D central console	•	•	•	•
APM403 central console	O	O	O	O
APM802 central console	O	O	O	O
Control unit under console	X	O	X	O
Length (m)	6.06(5)	12.19 / 13.72	6.06(5)	12.19 / 13.72
Width (m)	2.44	2.44	2.44	2.44
Height (m)	2.90	2.90(3)	2.90	2.90(3)

• As standard
X Not available
O Optional

(1) Inside the container
(2) On the roof of the container, not available on CPU 45
(3) Excluding silencer
(4) Up to 1100 kVA only

(5) Length without Super Silent option. With this option, allow for separate transportation of baffles
(6) Only in 40-feet

AUTOMATIC
TRANSFER SWITCHES

PROTECTING YOUR POWER
AND YOUR BUSINESS

With a wealth of expertise in the energy business, KOHLER Power Systems EMEA offers a range of three automatic transfer switches, to meet all your requirements and adapt to your specific needs:

IP54 control unit

IP31 control unit

IP65 control unit

IP20 control unit

IP55 control unit

VERSO 100

Reliable and simple to use, VERSO 100 models are equipped with the main functions of this type of equipment, making them among the most compact solutions on the market.

VERSO 150D

The VERSO 150 D is a robust changeover switch sized to operate at an ambient temperature of 50°C. The built-in mains detection relay has two fixed delays that prevent unwanted start-ups following mains micro-disconnections and allow the controlled return of power when it has become stable again. This range has been developed for markets subject to frequent and significant fluctuations in the mains power.

VERSO 200

The VERSO 200, available from 200 to 3200 A, is autonomous and complete. This changeover switch is perfectly suited to low-voltage industrial applications.

STANDARD FEATURES OF THE ATS RANGE

Complete product

- Fully assembled solution tested according to the IEC* 60947-6-1 standard

Autonomous

- Double integrated power supply

Padlocking can be configured in three positions (I-O-II)

Automatic genset start-up

Intrinsic mechanical locking

High dynamic resistance

- For even greater safety, in case of short circuit closure
- Manual control for all emergency interventions

VERSO 200 control automaton

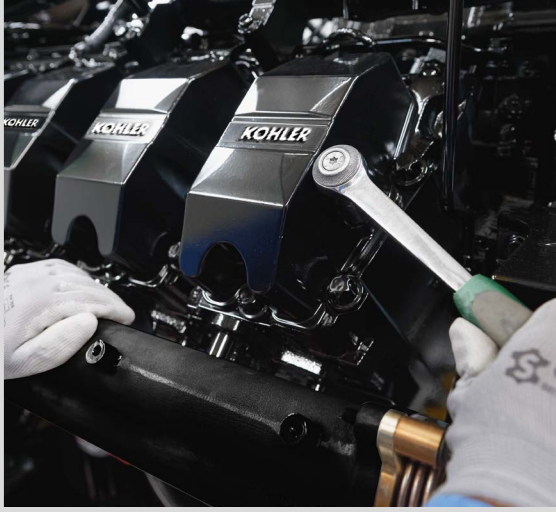
TECHNICAL SPECIFICATIONS

VERSO 100	VERSO 100 S					VERSO 100 D				
RATINGS (A)	35	63	100	125	160	35	63	100	125	160
Type	Three phase					Three phase				
Voltage range - Frequency	208/220/230/240v & 380/400/415/440 V - 50-60Hz					208/220/230/240v & 380/400/415/480 V - 50-60Hz				
Display and setting	Potentiometer					Via LCD display				
Voltage drop tolerated	20% of the nominal voltage @400V					30% of the nominal voltage @400V				
Maximum voltage tolerated by the equipment	288 V					305 V				
Protects against a change in the phase rotation direction	•					•				
Protection in “0” position	X					Immediate return to position 0 in the event of a fault				
Lightning arrester	X					O				
Confirmation of mains return	•					•				
EJP (for France only)	•					•				
Protection index	IP31					IP54				
Dimensions (h x w x d) mm	385 x 385 x 193					600 x 400 x 200				

VERSO 150D			
RATINGS (A)	63	100	160
Type	Three phase		
Voltage range - Frequency	230/400Vac 50-60Hz		
Display and setting	Potentiometer		
Adjustable voltage threshold	(+/-) 30% of 400Vac		
Voltage drop tolerated	320/480 Vac between phases		
Protects against a change in the phase rotation direc-tion	•		
Lightning arrester	O		
EJP (for France only)	X		
Confirmation of mains return	X		
Protection index	IP65		
Dimensions (h x w x d) mm	500 x 400 x 200		500 x 500 x 200

VERSO 200			
RATINGS (A)	200, 250, 400, 630	800, 1000, 1250, 1600 *	2000, 2500, 3200
Type	Three phase		
Voltage range - Frequency	208/220/230/240v & 380/400/415/440 V - 50-60Hz		
Configuration	Auto-configuration of voltage/frequency min/max and configurable thresholds		
Display and setting	By LCD - Supplied with manually-operated key - Can be padlocked in manual mode		
Voltage drop tolerated	30% of the nominal voltage @400V		
Maximum voltage tolerated by the equipment	332 V		
Protects against a change in the phase rotation direction	•		
Lightning arrester	O (IP55)		
EJP (for France only)	• (configurable)	• (configurable)	• (configurable)
Confirmation of mains return	• (configurable)		
Protection index	IP20 (55 on request)	IP55	IP55
Inputs/outputs	3 configurable dry contact inputs/2 configurable relay outputs		
Dimensions (h x w x d) mm	840 x 640 x 450 IP55 : 1750 x 700 x 500	2150 x 900 x 700 *1600A : 2150 x 1100 x 700	2150 x 1100 x 900

• Standard O Option X Not available



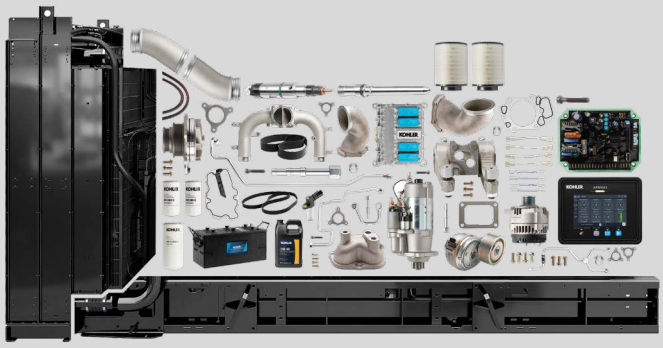
AFTERMARKET PARTS AND SERVICES

AT THE HEART OF OUR EXPERTISE

You can count on KOHLER to take care of your equipment

- 24/7/365 support
- Distribution network of 800 partners around the world
- Maintenance and warranty coverage for your peace of mind
- Spare parts availability
- International training centers

No one knows your KOHLER generators like the Kohler expert engineers and factory-trained and certified technicians to take care of your equipment.



SERVICE
AND TECHNICAL SUPPORT

KOHLER generators operate reliably and with minimal maintenance work. In addition, we offer various services for your generator that ensure long-term value, guarantee optimal operation and minimize life cycle cost.

Our factory-trained and certified technicians are equipped with the knowledge and latest diagnostic and digital tools to keep you up and running.

- Field service engineers support critical installations and field issues as needed
- 24/7 service available nationwide
- Supply high-quality KOHLER genuine parts and guarantee short delivery times
- Hands-on technical support is available from KOHLER service centers and distributor service personnel
- Over 800 distributors and 10,000 dealers worldwide
- Remote virtual Merged Reality (MR)/Augmented Reality (AR) assistance saving cost in travels and helping to get the job done right the first time

For your company and your KOHLER generator this means:

- Decreased life cycle costs
- Long-term value preservation
- Sustainable quality assurance
- Lower follow-up costs for maintenance and repairs
- Increased profitability and efficiency

WARRANTY

We stand behind the quality of our products by offering a standard warranty and an optional extended warranty to protect your investment.

Factory-trained technicians complete all covered repairs using genuine KOHLER parts. Equipment is supported by a global network of certified KOHLER distributor technicians and backed by a factory-direct technical support service. Optional extended warranty solutions reduce the risk of unexpected failure costs beyond standard factory warranty. Multiple options are available for extended warranties – so you can choose the one that's right for your application.

GENUINE **PARTS**

KOHLER® genuine parts are built specifically for your industrial generator to optimize it performance, extend the service life and reduce maintenance cost –and will be available when you need them.

From turbochargers to oil filters, we ensure every part that goes into our generators meets the highest standards for performance and durability. Keep your generator running at peak performance by replacing your parts with KOHLER genuine parts

- Extensive parts inventory is available through our Spare parts logistic centers, Service centers and global network of distributors to be delivered quickly to any location
- Preventative maintenance kits provide all the parts required to complete scheduled maintenance events extending the service life and protecting your generator
- Parts are available to support your generator through its lifecycle

Why KOHLER genuine parts?

When you use KOHLER® genuine parts, you are using the same parts validated through reliability testing during development and selected for final production.

- Proven reliability
- Trusted performance
- KOHLER quality standards
- Expert support
- Reduced total cost of ownership

TRAINING

At Kohler to consistently delight our customers, we ensure our worldwide network of technicians have completed a customized factory-based training curriculum (with three progressive levels), and we continue to innovate our advanced training methods and diagnostic tools.

- Our International Training centers
- Expert Instructors
- Innovation

KOHLER®

KOHLER.COM