

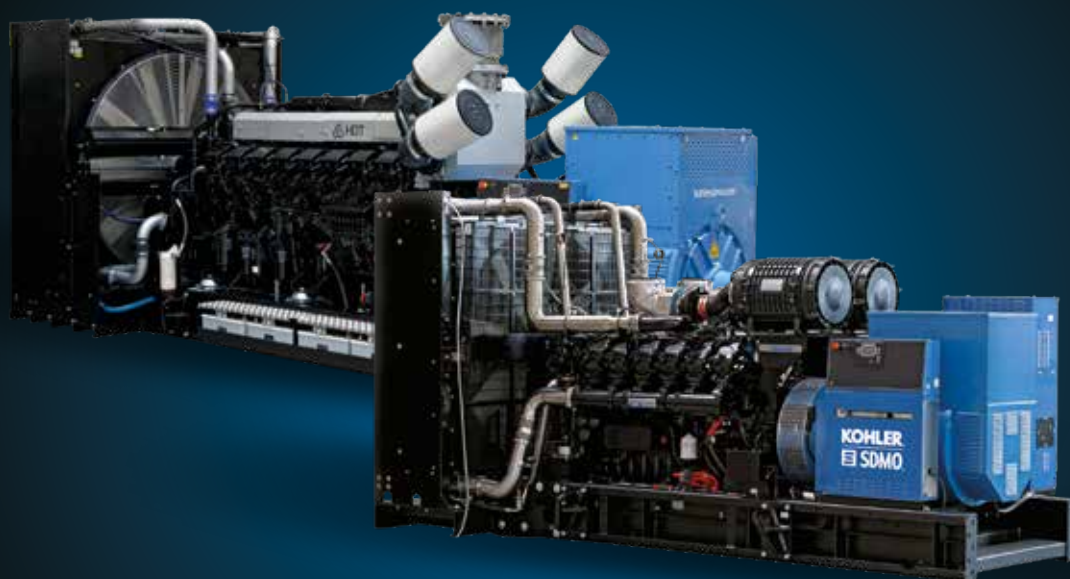
INDUSTRIAL RANGE

VALUE RANGE

50 HZ 60 HZ

900 - 2800 KVA | 1200 - 2000 KWE

MK-PP-VR-D0-EN-201



KOHLER[®]
IN POWER. SINCE 1920.

SINCE
1920

A GLOBAL ICON **NEARLY 150 YEARS** **IN THE MAKING**

Founded in 1873 by an Austrian immigrant, John Michael Kohler, Kohler Co. is one of America's oldest and most successful private companies. With its head office in Kohler, Wisconsin (USA), Kohler Power currently operates five facilities throughout the world for designing, manufacturing and installing engines, generating sets and power supply solutions. Since day one, Kohler has set the standard for design and technology, establishing a global reputation for premium products.



KOHLER® AND SDMO® OUR STORY

A global force in power solutions since 1920, Kohler is committed to reliable, intelligent products, advanced engineering and responsive after-sales support. Over the years, we've extended our global reach, acquiring SDMO Industries, a worldwide leader known for its high quality generating set sets.

Together, we've built on the legacy of two leading brands to create one of the largest generating set manufacturers in the world and maintained an unwavering focus on reliable power systems and innovation. Our R&D, manufacturing, sales, service and distribution facilities span the globe, from the Group's home in the USA to Brest, France. And while we've maintained two world-renowned brand names, today KOHLER and SDMO operate as an integrated global organization that's leading the way in design and manufacturing.

We produce integrated industrial power supply systems for a variety of applications (prime, continuous and emergency) in all building types around the world. From data centers and hospitals to water treatment facilities and government offices. With a deep understanding of your industry, we excel in designing customized power systems that simplify your most complex challenges.



KEY POINTS

KOHLER®



OPTIMIZED AND CERTIFIED SOUND LEVELS

Optimized and certified sound levels. Measurements:

- ▶ conducted using acoustic intensimetry (the most accurate method on the market)
- ▶ conducted in a COFRAC accredited laboratory (the French official accreditation body)



ROBUST BASE FRAMES AND HIGH-QUALITY ENCLOSURES

A high quality enclosure protects the generating set'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.



POWER MAINTAINED EVEN IN EXTREME CONDITIONS

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



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.



QUALITY TESTING

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



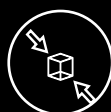
SAFETY OF PERSONS AND INSTALLATIONS

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



APPROVED 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.



SMALL FOOTPRINT HIGH PERFORMANCE

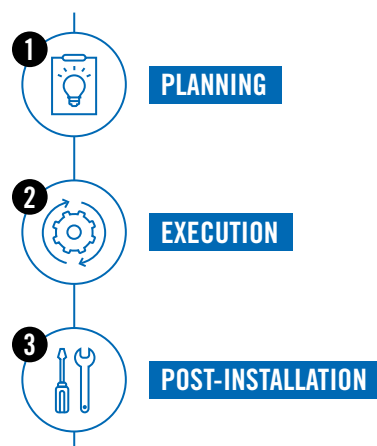
The footprint of a generating set, in both surface area and volume, is key to ensuring its integration, regardless of space constraints. Thanks to their innovative engineering, KOHLER generating sets pack big performance into a compact frame.



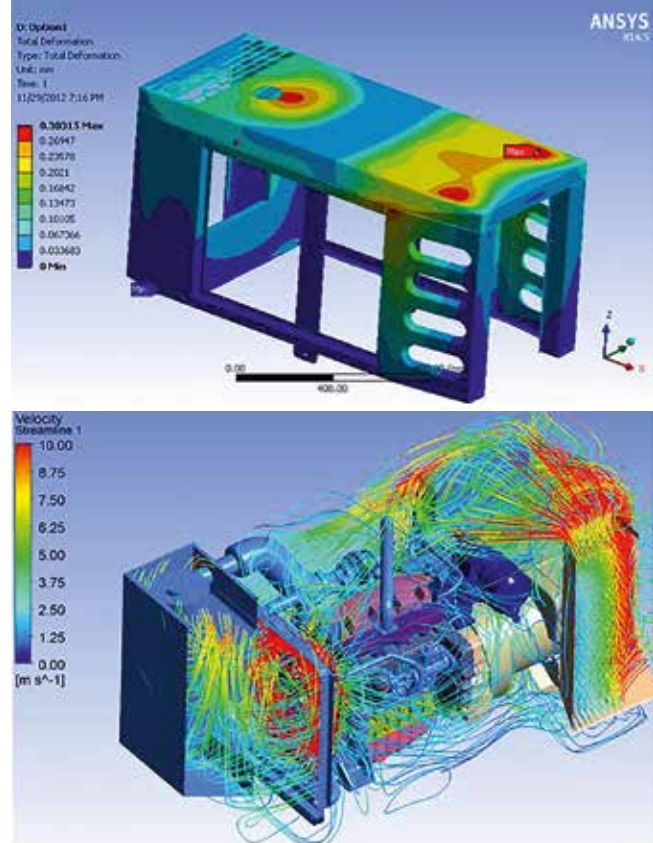
LET OUR EXPERTS TAKE CARE OF YOUR PROJECTS

Each project entrusted to KOHLER follows a proven process, from the preliminary study through to maintenance of the installation. A succession of previously-established steps, managed by all our teams, offers a complete guarantee of flawless efficiency.

We have only one aim, from design planning and equipment selection to final testing and starting: to offer you reliable power systems designed precisely to meet your specifications. Agile manufacturing, rigorous testing and careful commissioning assure you of a solution that fits your business – and your budget.



Your power plant has been custom designed, manufactured and tested by a team of experienced engineers. Your dedicated representative coordinates all the steps in your project with each stakeholder, monitors performance quality and works to finalize your project right up to commissioning, all within the agreed deadlines.



KOHLER EXPERTISE BENEFITING THE INDUSTRIAL RANGE

KOHLER invests heavily in research and development, with a view to anticipating demand and offering you the most innovative and high-performance energy solutions on the market.



DESIGN OFFICES USING THE LATEST TECHNICAL INNOVATIONS

The Research & Development cell is home to 140 specialist mechanical, electrical and electronic engineers. The teams are able to anticipate future requirements, and receive ongoing training in the latest 3D modeling, structural calculation, and structural constraints tools, and thermodynamic, acoustic and electrical simulators. This guarantees that the energy solutions you adopt will be at the leading edge of innovation, offering the best performance on the market.

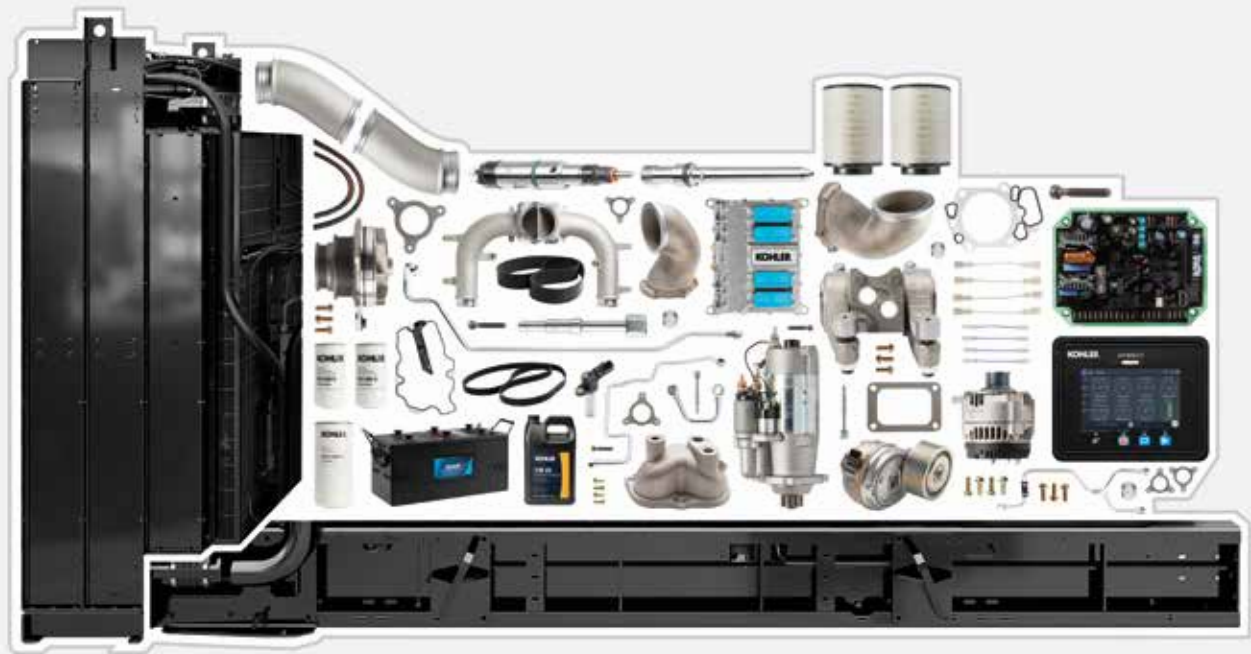
MODERN FULLY CERTIFIED FACTORIES



- ▶ All of our generating sets are developed in France.
- ▶ In extensive premises (over 38,000 m²), we have advanced operational equipment, with factories certified to ISO 9001 and 14001.

A CUTTING-EDGE LABORATORY

- ▶ ISO 17025 accredited since 2009, our "LAB" uses a testing procedure validated and calibrated by COFRAC.
It conducts 5 main types of testing:
 - Thermal balance calculations (cooling)
 - Sound level measurements (measurement method as per Directive 2000/14/EC and ISO 8528-10)
 - Electrical checks (EN 12601-ISO 8528)
 - Project-specific tests (coupling boards), load/shedding impact (standard ISO 8528-5 performance classes G1/G2/G3)
 - Production control (compliance with Directive 2000/14/EC, sourced products, etc.)
- ▶ The laboratory has access to the most advanced tools, with dedicated facilities set over 2000 m², including: a prototype construction area with a 20-ton crane, 3 test benches with control rooms, and a noise emissions area covering 1000 m²...



SERVICES & TRAINING



WORLDWIDE NETWORK

Distribution sites throughout the world, offering local customer support and technical assistance 24/7. Standardized assistance and spare parts across all our markets.



WARRANTY

KOHLER guarantees the quality of its products with a standard warranty and an optional extended warranty to protect your investment, reducing the cost of unexpected faults. The equipment is supported by a global network of KOHLER-certified distribution technicians, with backup from direct technical support services at the factory.



TRAINING

Certified technician training delivered by KOHLER experts in training centers throughout the world. Training at KOHLER training centers and laboratories, and at the distributor's premises or your own site, as needed.



GENUINE PARTS

KOHLER genuine parts are specially designed for your generating set, and are available whenever you need them. We have a vast catalog of parts available through our global network. We supply preventive maintenance kits containing all the parts necessary for scheduled maintenance operations.



GENERATING SET TECHNICAL SUPPORT

Trained in the factory, our certified technicians have up-to-date knowledge and diagnostic tools to keep your generating set up and running, with fast and accurate issue resolution. Our on-site maintenance engineers will take care of critical installations and any problems you may experience at your premises. We offer a 24/7 technical assistance service.



X-PRESS RANGE

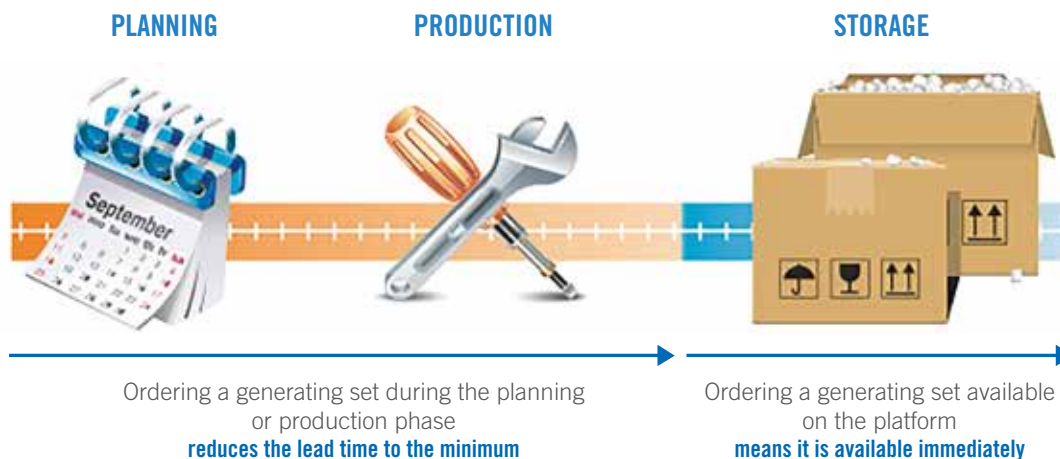
STANDARD GENERATING SETS HELD IN STOCK

Seven 50 Hz references from 900 to 1500 kVA in the industrial range are stocked worldwide for quick delivery.

These generating sets are available in open or soundproofed versions. Aftermarket options are available to order (remote contact pack, normal/emergency switching, spare parts kits,...).

► ORDER DIRECTLY BY MAIL

You can place your order directly by mail using the form attached to the stock list sent each week. Cut out the middle man: your order is registered and shipped in the quickest possible time.



50 HZ CONFIGURATION AVAILABLE

	900 TO 1500 KVA	
	OPEN	SOUNDPROOFED
4-pole circuit breaker	•	•
Control unit	APM403	APM403
U/I measurement board	•	•
Auto pack	•	•
Prewiring for auto start-up	•	•
CE label	•	•
Silencer	X	•

• Included X Not available

INDUSTRIAL RANGE FROM 900 KVA TO 1500 KVA

BAUDOUIN ENGINE

OPEN VERSION



B1400 ▶ OPEN VERSION

SOUNDPROOFED VERSION



B900 ▶ SOUNDPROOFED VERSION

PRODUCT BENEFITS

- ▶ The KOHLER range of generating sets equipped with Baudouin engines offers competitive products that use proven technology. These generating sets are configured products which are ready to use right from installation. Their mechanical injection engines and readily available spare parts simplify maintenance operations.

SPECIFICATIONS 50 HZ - 400-230 V

Generating sets		B900	B1000	B1100	B1250	B1400	B1500
kVA Cos phi 0.8 ⁽¹⁾	PRP ⁽²⁾	818	909	1018	1136	1273	1364
	ESP ⁽³⁾	900	1000	1100	1250	1400	1500
Cons. 3/4 at PRP (L/h)		132	145	154	173	188	201
Engine	Engine type	12M26G/5	12M26G/5	12M26G/5	12M33/5	12M33/5	12M33/5
	CC (qty and configuration)	12 V	12 V	12 V	12 V	12 V	12 V
	Total cubic capacity (L)	31.81	31.81	31.81	39.23	39.23	39.23
Open version ⁽⁴⁾	Dimensions	L (m)	4.45	4.45	4.45	4.80	4.75
		W (m)	1.87	1.87	1.87	2.20	2.20
		h (m)	2.30	2.30	2.30	2.50	2.50
	Weight (kg) ⁽⁵⁾	7470	7700	7880	8850	9120	9430
Enclosure	M427SI	dB(A) at 7 m ⁽⁶⁾	(7)	(7)	(7)	-	-
		Weight (kg) ⁽⁵⁾	9700	9900	10100	-	-
Container	ISO20 SI	dB(A) at 7 m ⁽⁶⁾	-	-	-	82	82
		Weight (kg) ⁽⁵⁾	-	-	-	14640	14910
						14910	15220

(1) ISO 8528: power expressed in accordance with the legislation in force

(2) PRP: prime power available continuously with variable load for an unlimited time in accordance with ISO 8528-1. An overload capacity of 10% is available for one hour every twelve hours.

(3) ESP: standby power available for emergency use under variable load, in accordance with ISO 8528-1, no overload available under this service

(4) The dimensions and weights apply to a generating set specified in the price list, without options

(5) Dry weight without fuel

(6) at ¼ load

(7) to be confirmed

INDUSTRIAL RANGE

FROM 1200 KVA TO 2800 KVA

MITSUBISHI ENGINE

OPEN VERSION



T1400 ➤ OPEN VERSION

SOUNDPROOFED VERSION



CPU40 ➤ Silent (SI) or Super Silent (SSI)
L x w x h: 12.19 x 2.44 x 2.90 m – 500 L fuel tank

SPECIFICATIONS 50 HZ - 400-230 V

Generating sets ⁽¹⁾	VOC ⁽³⁾	T1250	T1400	T1540	T1650	-	T1900	T2100	T2200	-	T2500	T2800
	VOE ⁽⁴⁾	-	-	-	-	T1650C	-	-	-	T2200C	-	-
kVA Cos phi 0.8 ⁽¹⁰⁾	PRP ⁽⁵⁾	1136	1275	1400	1500	1500	1727	1909	2050	2000	2273	2538
	DCP ⁽⁶⁾	1275	1403	1540	1650	1650	1900	2100	2255	2200	2500	2800
	ESP ⁽⁷⁾	1275	1403	1540	1650	1650	1900	2100	2255	2200	2500	2800
Cons. 3/4 at PRP (L/h)	VOC ⁽³⁾	189	208	218	240	-	260	314	317	-	370	398
	VOE ⁽⁴⁾	-	-	-	-	240	-	-	-	326	-	-
Engine	Engine type	S12R-PTA -3	S12R-PTA -3	S12R-PTA2	S12R-PTA2	S12R-FIPTAW2	S16R-PTA	S16R-PTA2	S16R-PTA2	S16R-FIPTAW2	S16R2-PTAW	S16R2-PTAW2-E
	CC (qty and configuration)	12 V	12 V	12 V	12 V	12 V	16 V	16 V	16 V	16 V	16 V	16 V
	Total cubic capacity (L)	49.03	49.03	49.03	49.03	49.03	65.37	65.37	65.37	65.37	79.90	79.90
Open version ⁽²⁾	Dimensions	L (m)	4.31	4.33	4.40	4.98	5.09	5.52	5.52	5.60	4.58	6.08
		W (m)	2.00	2.00	2.00	2.24	2.20	2.29	2.29	2.29	1.90	2.36
		h (m)	2.29	2.36	2.36	2.45	2.39	2.48	2.48	2.56	2.39	2.82
	Weight (kg) ⁽⁸⁾	10100	10370	10680	11150	12041	12979	12979	14215	12160	15500	17000
Enclosure	M428 SI	dB(A) at 7 m ⁽⁹⁾	80	80	80	-	-	-	-	-	-	-
		Weight (kg) ⁽⁸⁾	12430	12700	13010	-	-	-	-	-	-	-
	M428 SSI	dB(A) at 7 m ⁽⁹⁾	77	-	-	-	-	-	-	-	-	-
		Weight (kg) ⁽⁸⁾	12570	-	-	-	-	-	-	-	-	-
Containers	ISO20 SI	dB(A) at 7 m ⁽⁹⁾	-	80	80	89	89	-	-	-	-	-
		Weight (kg) ⁽⁸⁾	-	14932	15307	16300	16910	-	-	-	-	-
	ISO20 SSI	dB(A) at 7 m ⁽⁹⁾	-	76	76	76	76	-	-	-	-	-
		Weight (kg) ⁽⁸⁾	-	16250	16470	16800	17480	-	-	-	-	-
	ISO40	dB(A) at 7 m ⁽⁹⁾	-	-	-	-	83	84	85	85	-	-
		Weight (kg) ⁽⁸⁾	-	-	-	-	22760	22890	23090	22760	-	-
	CPU40 SI	dB(A) at 7 m ⁽⁹⁾	-	-	-	-	78	-	-	80	-	-
		Weight (kg) ⁽⁸⁾	-	-	-	-	22770	-	-	25490	-	-
	CPU40 SSI	dB(A) at 7 m ⁽⁹⁾	-	-	-	-	72	-	-	74	-	-
		Weight (kg) ⁽⁸⁾	-	-	-	-	23441	-	-	26161	-	-

(1) Also available in the following voltages: 415/240 V – 380/220 V

(2) The dimensions and weights apply to a generating set specified in the price list, without options

(3) VOC: Consumption Optimization Variant

(4) VOE: Emissions Optimization Variant

(5) PRP: prime power available continuously with variable load for an unlimited time in accordance with ISO 8528-1. An overload capacity of 10% is available for one hour every twelve hours.

(6) DCP: data center power, applies to data center installations where a reliable network is available. This definition complies with the requirements of the Uptime Institute Tier III and IV. At constant or variable load, the generating set can run for an unlimited number of hours in case of a mains outage. Power in accordance with the ISO 8528-1, ISO 3046-1, BS 5514 and AS 2789 standards. Average load factor: ≤ 100 %

(7) ESP: standby power available for emergency use under variable load, in accordance with ISO 8528-1, no overload available under this service

(8) Dry weight – without fuel

(9) at ¾ load

(10) ISO 8528: power expressed in accordance with the legislation in force



- ▶ Generating sets in the VALUE range equipped with Mitsubishi engines feature a winning combination: robust design and ease of use.
- ▶ All generating sets in this range are available with DCP power for data centers.

FROM 1200 KWE TO 2000 KWE

OPEN VERSION



T2000U ▶ OPEN VERSION

SOUNDPROOFED VERSION



T1200U ▶ SOUNDPROOFED VERSION

Silent (SI)

L x w x h: 6.06 x 2.44 x 2.90 m – 500 L tank

Super Silent (SSI)

L x w x h: 9.15 x 2.44 x 2.90 m – 500 L tank

ALSO AVAILABLE IN 40-FOOT VERSION: ISO40 (SILENT)

L x w x h: 12.19 x 2.44 x 2.90 m – 500 L fuel tank

SPECIFICATIONS 60 HZ - 480-227 V

Generating sets ⁽¹⁾	VOC ⁽⁴⁾		T1200U	T1350U	T1600U	T1800U	T2000U
	VOE ⁽⁵⁾		-	-	-	-	-
kWe ISO 8528 ⁽²⁾	PRP ⁽⁶⁾		1091	1228	1454	1636	1818
	DCP ⁽⁷⁾		1200	1350	1600	1800	2000
	ESP ⁽⁸⁾		1200	1350	1600	1800	2000
Cons. 3/4 at PRP (L/h)	VOC ⁽⁴⁾		229	250	294	346	357
	VOE ⁽⁵⁾		-	-	-	-	-
Engine	Engine type		S12R-PTA	S12R-PTA2	S16R-PTA	S16R-PTA2	S16R-PTAA2
	CC (qty and configuration)		12 V	12 V	16 V	16 V	16 V
	Total cubic capacity (L)		49.03	49.03	65.37	65.37	65.37
Open version ⁽³⁾	Dimensions	L (m)	4.31	4.31	5.52	5.52	5.60
		W (m)	2.00	2.00	2.29	2.29	2.29
		h (m)	2.36	2.36	2.48	2.48	2.56
	Weight (kg) ⁽⁹⁾		9922	10142	12979	12979	13970
Containers	ISO20 SI	dB(A) at 7 m ⁽¹⁰⁾	83	83	-	-	-
		Weight (kg) ⁽⁹⁾	14560	14860	-	-	-
	ISO20 SSI	dB(A) at 7 m ⁽¹⁰⁾	78	78	-	-	-
		Weight (kg) ⁽⁹⁾	15130	15430	-	-	-
	ISO40	dB(A) at 7 m ⁽¹⁰⁾	-	-	85	86	86
		Weight (kg) ⁽⁹⁾	-	-	22760	22890	23090
	CPU40 SI	dB(A) at 7 m ⁽¹⁰⁾	-	-	80	80	-
		Weight (kg) ⁽⁹⁾	-	-	23444	23444	-
	CPU40 SSI	dB(A) at 7 m ⁽¹⁰⁾	-	-	75	75	-
		Weight (kg) ⁽⁹⁾	-	-	23994	23994	-

(1) Also available in the following voltages: 440/254 V and 380/220 V

(2) ISO 8528: power expressed in accordance with the legislation in force

(3) The dimensions and weights apply to a generating set specified in the price list, without options

(4) VOC: Consumption Optimization Variant

(5) VOE: Emissions Optimization Variant

(6) PRP: prime power available continuously with variable load for an unlimited time in accordance with ISO 8528-1. An overload capacity of 10% is available for one hour every twelve hours.

(7) DCP: data center power, applies to data center installations where a reliable network is available. This definition complies with the requirements of the Uptime Institute Tier III and IV.

At constant or variable load, the generating set can run for an unlimited number of hours in case of a mains outage. Power in accordance with the ISO 8528-1, ISO 3046-1, BS 5514 and AS 2789 standards. Average load factor: ≤ 100 %

(8) ESP: standby power available for emergency use under variable load, in accordance with ISO 8528-1, no overload available under this service

(9) Dry weight – without fuel

(10) at ¾ load

EQUIPMENT

MODULAR GENERATING SETS, AN ADAPTED RESPONSE

For each of its generating sets, KOHLER offers a large range of options to facilitate maintenance operations, enhance user safety and provide solutions for specific user requirements or demanding environments.

		mitsubishi engine	BAUDOUIN ENGINE
ENGINE	4 stroke water-cooled diesel engine	•	•
	Electronic regulation	•	•
	Standard air filter	•	•
	Air filter with interchangeable cartridge	0 ⁽¹⁾	-
	220/240 V preheating resistance (no control)	0	•
ALTERNATOR	IP 23 single bearing alternator, T° class = H, insulation class H/H	•	•
	Anti-condensation heater	0	-
	Type D impregnation	•	•
	Type R impregnation	0	-
	Short circuit current maintained at 3 In for 10 s	•	•
	Oversized alternator	0	-
GENERATING SET	CE compliance of the control unit	•	•
	Mechanically welded base frame with anti-vibration dampers	•	•
LUBRICATION	Automatic oil make up with tank	0	-
	Oil drainage pump	•	•
COOLING	Protective grille for fan and rotating parts	•	•
EXHAUST	Stainless steel compensators	•	•
	9 dB(A) silencer supplied separately	0	•
	29 dB(A) silencer supplied separately	0	-
	40 dB(A) silencer supplied separately	0	-
STARTING	24 V charging alternator and starter	•	•
	Batteries with cables and battery support bracket	0	•
	Battery isolating switch	0	-
FUEL	Genset with fuel tank	0 ⁽²⁾	•
	Separate fuel tank on 500 L container	0	-
	Separate fuel tank on 1000 L container	0	-
	Retention container level alarm	0	-
	1 m³/h 1-pump auto kit	0	-
	2 m³/h 2-pump auto kit	0	-
	Diesel separator pre-filter	0	0

(1) Except T1650C. Contact us for containers or enclosures

(2) Up to T1650C

• As standard

0 Optional

1 DIESEL SEPARATOR PRE-FILTER

This is a pre-filter enabling water contained in the diesel to be removed, thereby improving the engine's protection.

2 FILTERS WITH INTERCHANGEABLE CARTRIDGE

Dry air filters with removable and interchangeable cartridges for dusty environments, which can be removed and cleaned with an air gun, if required. This option is required when the generating set is used in dusty environments.

3 OVERSIZED ALTERNATOR

For installations with significant electrical or climate constraints, this option allows greater operating flexibility for a better guarantee of performance.

4 IMPREGNATION

- Type D: for tropical type environments with relative humidity > 95 %, outside coastal areas
- Type R: for harsh industrial environments with humidity > 95 % and coastal environment

5 SILENCER ON OPEN VERSION

"Open" generating sets offer a choice of three levels of noise attenuation (9 dB(A), 29 dB(A), 40 dB(A)) to meet the installation constraints.

6 AUTOMATIC OIL MAKE UP WITH TANK

Automatic oil make up system enabling a constant oil level to be maintained in the crankcase during operation. It comprises a new oil reserve, an oil level regulator and a hose and valve assembly mounted on the generating set's base frame.

7 AUTOMATIC FUEL FILLING KIT

This kit allows the fuel tank to be automatically filled from an external storage tank. It includes:

- an electric pump with automatic control governed by a gage with level levels
- a stand-by manual pump.

1 ►



2 ►



3 ►



5 ►



6 ►



7 ►





CONTAINERS

A VERSATILE RANGE OF SOUNDPROOFED CONTAINERS

You are faced with numerous installation constraints. Our containers can be adapted to meet all your needs. Thanks to their standard dimensions, they are easy to transport. Our turnkey containers have an integrated fuel tank which means they are ready to run. Their coolant system, with an integrated silencer and sound traps, provides a highly economical solution.

ISO CONTAINERS

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

Available in 20- and 40-foot High Cube versions



CSC* certified



Adapted to
standard
environments

PRODUCT BENEFITS

- **FLEXIBLE INTEGRATION**
- **SUPER SILENT OPTION ON THE 20-FOOT ISO VERSION**
includes soundproofed walls and external sound traps on the air inlets and outlets. These baffles are fitted on site.



CPU CONTAINERS

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

**Available as 40-foot High Cube
(Silent and Super Silent versions)**



CSC* certified



Double maintenance door



Harsh atmospheres (heat, dust)



- ▶ **LOW SOUND LEVEL**
- ▶ **SIMPLIFIED MAINTENANCE**
- ▶ **AVAILABLE WITH A
40 °C OR 50 °C
COOLANT SYSTEM**
- ▶ **ACCESSIBILITY OF THE CONTROL/
COMMAND AND POWER SUPPLY
DEVICES**
- ▶ **SHORT PRODUCTION LEAD TIMES**



MODEL	ISO CONTAINERS	CPU CONTAINERS
Dimensions	20-foot High Cube 40-foot High Cube	40-foot High Cube
CSC* certified	Yes	Yes
Standard sound level at 50 Hz, at 7 m, 3/4 load	- 80 to 89 dB(A) with Silent option - 76 dB(A) with Super Silent option**	- 78 to 80 dB(A) with Silent option - 72 to 74 dB(A) with Super Silent option
Double maintenance door	No	Yes
Target environments	Standard environment	Harsh atmospheres (heat, dust)

*CSC: the International Convention for Safe Containers (CSC) is a regulation that ensures 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.

**with the Super Silent soundproofing kit option



STANDARD EQUIPMENT AND OPTIONS FOR CONTAINERS

		SILENT			SUPER SILENT	
		ISO20 Si	ISO40 Si	CPU40 Si	ISO20 SSI	CPU40 SSI
GENERATING SET	Complies with CSC certification	•	•	•	•	•
	Basic generating set	•	•	•	•	•
	Starter, charging alternator	•	•	•	•	•
	Batteries filled with electrolyte	0	0	0	0	0
	Standard air filter	•	•	•	•	•
	Oil drainage pump	•	•	•	•	•
FILTRATION	Reinforced fuel filtration	X	X	0	X	0
CONTAINER SPECIFICATIONS	High performance 30 dB(A) silencer	• ⁽¹⁾	• ⁽²⁾	• ⁽²⁾	• ⁽¹⁾	• ⁽²⁾
	Integrated exhaust module	X	X	0	X	0
	Floor	Steel sheet	Steel sheet	Steel sheet	Steel sheet	Steel sheet
	Number of side doors	2	2 + 1 double	2 + 2 double	2	2 + 2 double
	Galvanized air outlet rain grille	0	0	X	0	X
	Air intake protective rain grille	•	•	•	•	•
	Safety lighting and shut-off valve	0	0	0	0	0
	Exhaust outlet on clamp	0	X	X	0	X
	RAL 9010 white painted finish for container	•	•	•	•	•
	Special color from list	0	0	0	0	0
FUEL	Power cable outlet on lower section	0	0	•	0	•
	Retention bund under genset assembly	•	•	•	•	•
	500 L base frame fuel tank	•	•	X	•	X
	Tank on 500 L container	X	X	•	X	•
	Tank on 1000 L container	X	X	0	X	0
	1500 L base frame tank ⁽⁴⁾	0	0	X	0	X
	1 m³/h 1-pump auto kit	0	0	0	0	0
CONTROL UNITS	1 m³/h 2-pump auto kit	X	X	0	X	0
	CE compliance of the control unit	•	•	•	•	•
	APM403 central console	0	0	0	0	0
DIMENSIONS	APM802 central console	0	0	0	0	0
	Length (mm)	6058	6058	12,192	9148	12,192
	Width (mm)	2438	2438	2438	2438	2438
	Height (mm)	2896	2896	2896 ⁽³⁾	2896	2896 ⁽³⁾

• As standard
X Not available
0 Optional

(1) inside the container
(2) on the container roof
(3) excluding silencer
(4) up to 1100 kVA only

THE POWER MODULES

AIPR, VERSO

AIPR

Each generating set may be supplied with a protection unit, incorporating the power circuit breaker. This unit is mounted on the generating set base frame and is connected to the alternator via cables. This AIPR function is also adapted for containers.

			AIPR
WITH MANUAL CONTROL ON THE FRONT			
3-pole open circuit breaker			0
4-pole open circuit breaker			0
MOTORIZED CONTROL OPTION ⁽¹⁾			
With 3 or 4-pole open circuit breaker only			0
Voltage 380-480 V			•
Auxiliary unit option ⁽²⁾			0
Large range power connection bus bars, outlet on lower section			• ⁽³⁾
Remote control terminal block			•
Protection rating			IP20
Dimensions (without air cooler unit)	height (mm)		1260
	width (mm)		683
	depth (mm)		365
Dimensions (with air cooler unit)	height (mm)		1664
	width (mm)		683
	depth (mm)		365
Dimensions (unit with connection from above)	height (mm)		1883
	width (mm)		683
	depth (mm)		365

(1) The motorized control comprises: a closing electromagnet, a transmitting coil and an AC motor

(2) The auxiliary option unit is mounted above the main unit. It is used for the power connections of generating set auxiliaries, e.g.: air cooler/fan output.

(3) Standard at the bottom and optional at the top

• As standard
0 Optional



VERSO

In industrial applications, the transfer of the main source to the replacement source is crucial for the running of your installations. The Verso 200 is the perfect solution for this situation from **800 A to 3200 A**.

VERSO 200			
Ratings (A)	800, 1000, 1250	1600	2000, 2500, 3200
Type	Three phase		
Nominal voltage/frequency	208/220/230/240 V & 380/400/415/440 V – 50-60 Hz		
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 @400 V		
Protects against a change in the phase rotation direction	0		
Lightning arrester	0		
EJP pack (for France only)	•		
Confirmation of mains return	0		
Protection rating	IP55		
Inputs/outputs	3 configurable dry contact inputs/2 configurable relay outputs		
Dimensions (h x l x d) in mm	2000 x 806 x 642	2000 x 1006 x 642	2000 x 806 x 542

• As standard 0 Optional



≥ 800 A

CONTROL UNITS

M80, APM403, APM802: ONLY FROM KOHLER

KOHLER offers a unique range of specific control units: M80, APM403 and APM802. These control units offer a wide range of possibilities, from simplified running to management of the most complex parallel operations, and can be adapted to suit every need. This modularity is made even easier by the fact that each optional peripheral device (air cooler, daily service tank, fuel pump, etc.) has its own protection.

For power plants, separate control boxes may be used in place of the control units. Please do not hesitate to contact us.

INDUSTRIAL RANGE	mitsubishi	BAUDOUIN
M80	0	X
APM403	•	•
APM802	0	X

• Standard X Not available 0 Optional

COMPARISON OF THE 3 CONTROL UNITS

SPECIFICATIONS	M80	APM403 S/P	APM802
DISPLAY			
Frequency	X	•	•
Phase to neutral voltages	X	•	•
Phase to phase voltages	X	•	•
Currents	X	•	•
Active/reactive/apparent power	X	•	•
Power factor	X	•	•
Grid detection	X	• (P)	•
Battery voltage	X	•	•
Battery amperage	X	0	0
Start-up delay	X	•	•
Fuel level	X	•	•
Oil pressure	•	•	•
Coolant temperature	•	•	•
Oil temperature	X	0	0
Total working hours counter	•	•	•
Partial working hours counter	X	•	•
Total active/reactive energy meter	X	•	•
Genset speed	•	•	•
FAULT INFORMATION (fault or alarm)			
Min/max alternator voltage time delay	X	•	•
Min/max alternator frequency time delay	X	•	•
Min/max battery voltage	X	•	•
Overload and/or short circuit	X	•	•
Active/reactive power return	X	X (S) / • (P)	•
Oil pressure	X	•	•
Coolant temperature	X	•	•
Overspeed	X	•	•
Underspeed	X	•	•
Low fuel level	X	•	•
Emergency stop fault	X	•	•
Non-starting fault	X	•	•
Charging alternator fault	X	•	•
Differential relay activation fault	X	•	•
General alarm	X	•	•
General fault	X	•	•
Sound alarm	X	0	0
Fully compatible with SAE J1939	X	•	•

SPECIFICATIONS	M80	APM403 S/P	APM802
OPERATION			
Power ON	X	•	X
Manual genset starting	X	•	•
Automatic genset starting	X	•	•
Genset shut down	X	•	•
Emergency stop	•	•	•
Menu navigation using color touch screen	X	X	•
Speed adjustment	X	0 (S) / • (P)	•
Voltage adjustment	X	0 (S) / • (P)	•
Controller redundancy	X	X	0
Dual frequency	X	•	0
Delayed start programming	X	•	0
Multilingual text	X	•	•
CONNECTIVITY			
MODBUS TCP/IP	X	0	•
RS 485 interface (mdBUS RTU protocol)	X	•	•
SNMP protocol	X	0	X
Local web access	X	•	•
Remote web access	X	0	X
USB port (config. and software downloading)	X	•	•
Remote control HMI	X	X	0
PARALLEL OPERATION			
Under load	X	• (P)	•
Stopped	X	X	0
Power plant continuity in case of inter controller communication fault	X	• (P)	•
Power plant wattmeter control	X	• (P)	•
Temporary parallel operation of Out/Return grid, single generating set	X	• (P)	•
Power plant parallel operation to grid (temporary, permanent, etc.)	X	X	•
GENERAL			
Downloading of a custom configuration via USB port	X	•	•
Recovery of the firmware config.+ existing settings via USB port	X	•	•

• As standard — X Not available — 0 Optional

CONTROL UNITS

THE M80

DUAL-FUNCTION CONTROL UNIT

The M80 uses a terminal block to connect a remote control/command unit and a dashboard with a direct read facility. It is fitted with display screens that provide a global view of your electrical generating set's basic settings, as well as an emergency stop button and a terminal block. It also conforms to EC standards.



ADDITIONAL SPECIFICATIONS

		TERMINAL BLOCK	M80
MEASUREMENTS	Tachometer (54 mm)	X	•
ENGINE PARAMETERS	Oil pressure gage	X	•
	Coolant temperature	X	•
	Oil temperature indicator	X	0
CONTROLS	Emergency stop	•	•
MISCELLANEOUS	CE compliant	•	•
	Terminal block for connecting remote unit	•	•

• As standard
X Not available
0 Optional

CONTROL UNITS

APM403, INTUITIVE, SIMPLE AND CONNECTED

DESCRIPTION OF THE APM403*



*APM403P

ADVANTAGES OF THE APM403

FLEXIBLE CONFIGURATION

- ▶ Technical solution can be broken down for multi-configuration – SOLO and PARALLEL OPERATION applications (up to 8 generating sets)
- ▶ Specific application variables can be customized.

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

FOCUS

▶ APM403S



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

INTUITIVE NAVIGATION AND SIMPLIFIED OPERATION OF THE GENERATING SET OR POWER PLANT

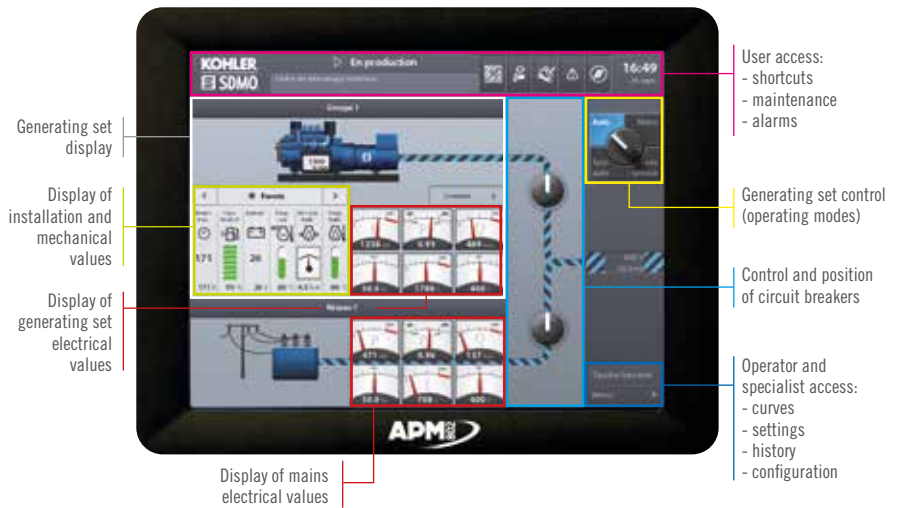
- ▶ Multilingual support
- ▶ Simple, intuitive configuration specific to operating scenarios

CONTROL UNITS

APM802, DEDICATED TO POWER PLANT MANAGEMENT

Exclusively 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 and mining.

The Human-Machine Interface, designed 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.



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.

