

on LINE on  
on DEMAND on CALL

## Industrial Power Systems Catalog

600 kVA – 2000 kVA, 50 Hz

550 kW – 2000 kW, 60 Hz

**KOHLER**<sup>®</sup>

# WORK WITH POWER PROFESSIONALS WHO ARE ALWAYS **on**™

Electrical contractors, engineers and facilities managers seeking reliable backup power get it from a source that's always ready. Always innovating. KOHLER® commercial-grade backup power systems are powerful, fast, automatic, quiet, clean. Always ... on.

Integrated solutions to streamline the specifying process. A support network that circles the globe. Continuous product development. Kohler is all this and, more important, has the power of people who can think through your challenges and offer real answers.



**Kohler, builder of the first modern generator in 1920**, is a global power systems manufacturer and rental power provider. Kohler, with manufacturing facilities in North America, India and Asia, serves North and South America, and Asia-Pacific regions. All global markets receive superior service from Kohler Co.'s authorized distributors.

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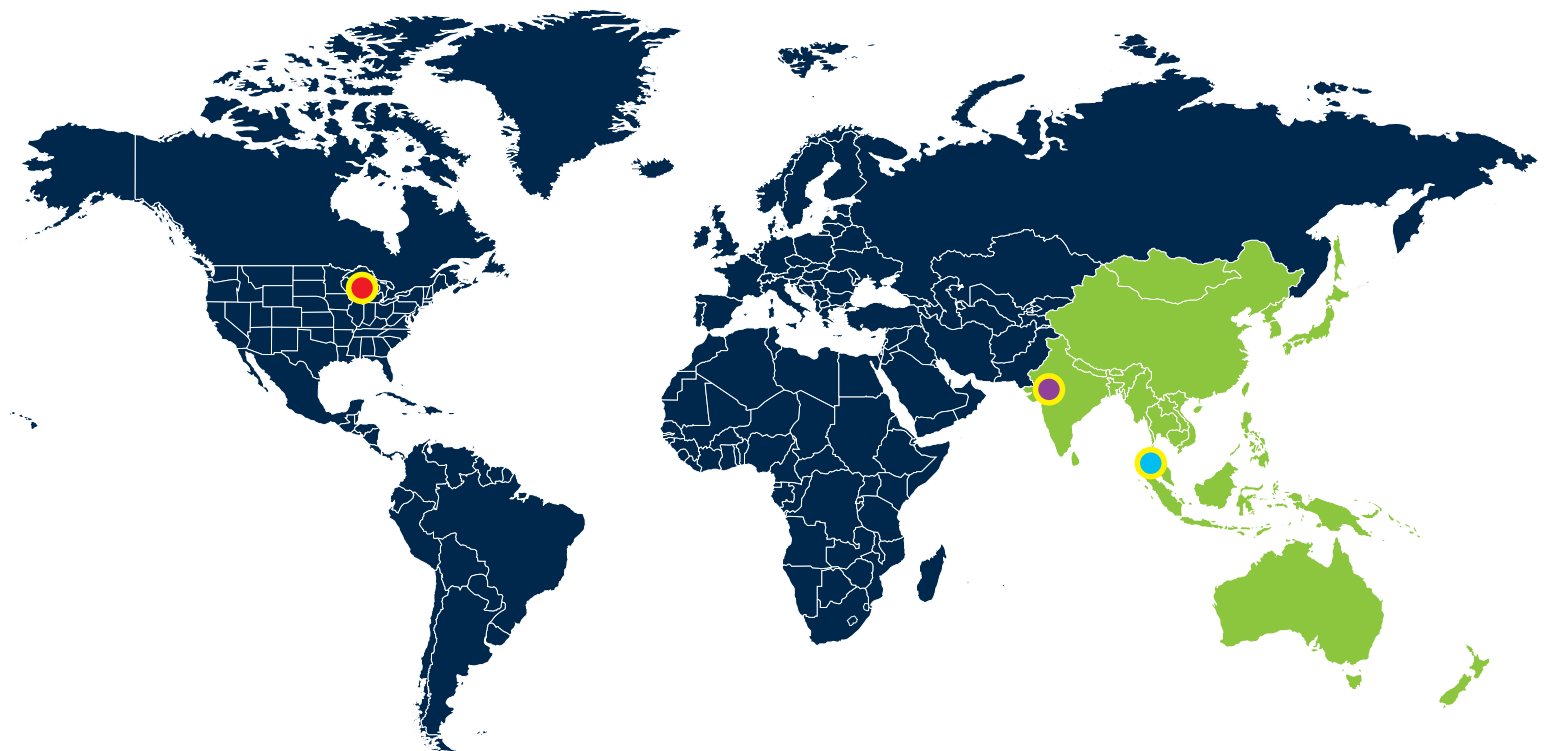
# YOU'RE COVERED. NO MATTER WHERE YOU ARE.

## **STANDBY POWER SYSTEMS MUST BE RELIABLE. THERE ARE NO OPTIONS. THERE ARE NO EXCUSES.**

Every KOHLER® power system is reliable because total integration is engineered in from the start. So when the utility power fails, accurate monitoring, immediate communication and seamless engagement of standby power are never in doubt. The power will be on, because the KOHLER Power Professionals behind the equipment are on. Always.

Kohler's distribution network, including nine sales offices, covers countries throughout the Asia-Pacific region, which receives power systems manufactured in Kohler's Asia facilities.

KOHLER industrial gensets are diesel-fueled models ranging from 5.5 kVA to 3300 kVA @ 50 Hz (11 kW to 3200 kW @ 60 Hz) complete with electronic controls and automatic transfer switches. To help cater to individual installation environments, Kohler also offers a range of accessories including controls, silencers, enclosures, fuel tanks and block heaters.



- Kohler Headquarters/Manufacturing: North America
- Kohler Headquarters/Manufacturing: Singapore
- Kohler Manufacturing: China

POWER PRODUCTS FROM  
**600 kVA TO 2000 kVA/50 Hz**  
**550 kW TO 2000 kW/60 Hz**



KOHLER 1000 kW diesel generator

**PACKED WITH POWER,  
 ENGINEERED FOR TOTAL  
 PERFORMANCE**

Critical power applications are part of every industry; protecting them starts with reliable KOHLER® generators, available in diesel, natural gas and LP gas configurations. Our diesel models deliver dependable power to a wide range of output requirements. From small-load residential and business to heavy industry, every KOHLER generator is engineered to provide maximum power, performance, flexibility and fuel efficiency.

STANDARD FEATURES AND ACCESSORIES			
	600REOZM – 1000REOZM	1250REOZM – 2000REOZM	
<b>Engine</b>			
Four-stroke water-cooled diesel engine	Standard	Standard	
Electronic governor	Standard	Standard	
Air cleaner, dry	Standard	Standard	
Air cleaner, heavy duty	Option	Option	
Air cleaner restriction indicator	Option	Option	
Oil filter	Standard	Standard	
Block heater, 220/240 V	Option	Option	
<b>Alternator</b>			
Single-bearing alternator, insulation class H	Standard	Standard	
Dripproof construction	Standard	Standard	
Permanent magnet-excited generator (PMG)	Standard	Standard	
Reactive droop compensator	Option	Option	
<b>Generator Set</b>			
Structural skid with integrated vibration isolation	Standard	N/A	
Structural skid in solid mount	N/A	Standard	
Decision-Maker™ 3+, 16-light controller	Standard	N/A	
Decision-Maker 550 controller	Option	Standard	
KOHLER cream beige color	Standard	Standard	
Line circuit breaker	Option	Option	
Oil drain extension	Standard	Standard	
Spring isolator	Option	Option	
Residential silencer	Option	Option	
Flexible exhaust connector	Option	Option	
<b>Cooling System</b>			
Unit mount radiator for 40°C ambient	Standard	Standard	
Unit mount radiator for 50°C ambient	Option	Option	
Protection guard for fan and revolving parts	Standard	Standard	
Low coolant level shutdown (unit-mounted radiator models only)	Standard	Standard	
Radiator core protective grill	Standard	Standard	
<b>Starting System</b>			
Charging alternator and starter motor voltage	24 V	24 V	
Battery (24 V)	Option	Option	
Battery rack and cables	Option	Option	
Battery charger	Option	Option	
<b>Diesel Fuel System</b>			
Fuel filter	Standard	Standard	
Flex fuel lines (installed)	Option	Option	
Flex fuel lines (loose)	Option	Option	
<b>Literature</b>			
Operator and installation literature	Standard	Standard	
General maintenance literature kit	Option	Option	
Overhaul literature kit	Option	Option	
Production literature kit	Option	Option	

N/A = Not Available

**600 kVA-2000 kVA THREE-PHASE GENERATOR SETS (50 Hz)**

Specifications @ 1500 rpm, 240-416 V, PF:0.8

Generator Set Model(1)	kVA		kW		Fuel Consumption		Unhoused Version(5)	
	Prime Power(3)	Standby Power(4)	Prime Power(3)	Standby Power(4)	Prime 3/4 L/h	Standby 3/4 L/h	Dimensions	Weight kg(6)
600REOZM	605	660	484	528	94	102	3.77 x 1.56 x 2.06	4950
750REOZM	750	830	600	664	131.7	119.6	4.17 x 1.72 x 2.00	6500
800REOZM	830	910	664	728	130.6	143.8	4.17 x 1.72 x 2.00	6500
1000REOZM	1065	1165	852	932	165	180	4.57 x 2.05 x 2.22	8750
1250REOZM	1285	1400	1028	1120	196	213	5.08 x 2.22 x 2.23	11310
1600REOZM	1600	1725	1280	1380	258	283	5.76 x 2.21 x 2.50	13000
1800REOZM	1813	1988	1450	1590	277	302	5.93 x 2.21 x 2.50	14000
2000REOZM	2000	2200	1600	1760	309	338	6.09 x 2.12 x 3.26	15000

**550 kW-2000 kW THREE-PHASE GENERATOR SETS (60 Hz)**

Specifications @ 1800 rpm, 277-480 V, PF:0.8

Generator Set Model(2)	kVA		kW		Fuel Consumption		Unhoused Version(5)	
	Prime Power(3)	Standby Power(4)	Prime Power(3)	Standby Power(4)	Prime 3/4 L/h	Standby 3/4 L/h	Dimensions L x W x H, m	Weight kg(6)
600REOZM	688	756	550	605	116	126	3.60 x 1.56 x 2.06	4950
750REOZM	850	938	680	750	151.8	165.8	3.99 x 1.72 x 2.00	6500
800REOZM	913	1013	730	810	162	177.2	3.99 x 1.72 x 2.00	6500
1000REOZM	1156	1275	925	1020	194	211	4.57 x 2.05 x 2.22	8750
1250REOZM	1425	1563	1140	1250	241	263	5.10 x 2.22 x 2.23	11310
1600REOZM	1813	2000	1450	1600	295	321	5.76 x 2.21 x 2.50	13000
2000REOZM	2275	2500	1820	2000	348	381	6.09 x 2.12 x 3.26	15000

(1) Also available in the following ranges: 230/400 V, 220/380 V.

(2) Also available in the following ranges: 220/380 V.

(3) Prime power ratings apply to installations where utility power is unavailable or unreliable. At varying load, the number of generator set operating hours is unlimited.

A 10% overload capacity is available for one hour in twelve. Ratings are in accordance with ISO-8528/1, overload power accordance with ISO 3046-1, BS 5514, AS 2789 and DIN 6271.

(4) Standby power ratings apply to installations served by utility source. The standby rating is applicable to varying loads for the duration of power outage. There is no overload capability for this rating.

Ratings are in accordance with ISO 3046-1, BS 5514, AS 2789 and DIN 6271.

(5) The dimensions and weights apply to an unhoused generator set without options.

(6) Wet weight, without fuel.



**KOHLER 800 kW generator**



**KOHLER 2000 kW generator**

## APPLICATION MANAGEMENT, TO THE HIGHEST POWER

Whether your concern lies with the simplest functions or the entire operation of a highly sophisticated system, KOHLER® generator controls give you the power to manage the application. Each control product is customizable to your specifications, engineered with safety and simplicity in mind to ensure displays and keypad functions remain user-friendly. Our complete line of Decision-Maker™ models feature innovative network communications for remote monitoring and also include programmable software to accommodate future system upgrades.

### DEC550



#### THE DECISION-MAKER 550 (DEC550)

generator set controller provides advanced control, system monitoring and system diagnostics for optimum performance. The DEC550 controller provides complete compatibility with selected engine Electronic Control Module (ECM) and non-ECM equipped generator set engines.

#### Standard Features

- Meets requirements of NFPA 99 and NFPA 110, Level 1
- UL 508A Listed
- Vacuum fluorescent digital display and keypad
- Two-line display of 20 characters provides information in English or metric units
- Communicate directly with PC via a network or modern configuration
- Supports Modbus® RTU (Remote Terminal Unit), an industry standard open communication protocol

#### Operating Characteristics

- Power source with circuit protection: 12- or 24-volt DC
- Power drain: 700 milliamps (400 milliamps without panel lamps)
- Humidity range: 5% to 95% noncondensing
- Operating temperature range: -40°C to +70°C
- Storage temperature range: -40°C to +85°C
- Dimensions (mm): 460 mm wide x 275 mm high x 291 mm deep

	Standard	Optional
User Interface		Emergency stop switch Alarm horn Annunciator lamps Generator set master switch, run/off-reset/auto positions Digital display Keypad Operating guide Controller terminal strips
Measurement		Battery voltage Coolant—level Coolant—pressure Coolant—temperature Engine start countdown Fuel—pressure Fuel—temperature Fuel rate expressed as L/hr. (gal./hr.) Fuel—used last run expressed as L (gal.) as the accumulated fuel quantity Oil—level and crankcase pressure Oil—pressure Oil—temperature Rpm Temperature—ambient Temperature—intake air <b>Generator monitoring data:</b> Current (L1, L2, L3), ±0.25% accuracy Frequency, ±0.5% accuracy Kilowatts, total per phase (L1, L2, L3), ±0.5% accuracy KVA, total per phase (L1, L2, L3), ±0.5% accuracy KVAR, total absorbing/generating per phase (L1, L2, L3), ±0.5% accuracy Percent alternator duty level (actual load kW/standby kW rating) Power factor per phase, leading/lagging Voltage (line-to-line, line-to-neutral for all phases), ±0.25% accuracy
Indicator Light/ Messages		Alarm horn Five LED status indicating lights Indicators: Not in auto (yellow) Program mode (yellow) System ready (green) System shutdown (red) System warning (yellow) Switches and standard features: Keypad, 16-button multifunction sealed membrane Lamp test Switch, auto, off/reset, run (engine start) Latch-type emergency stop switch with International Electromechanical Commission (IEC) yellow ring identification
Automatic Functions		Alternator protection Idle speed start Voltage regulation Cool-down mode Battleswitch mode Load shed mode Paralleling relays for KOHLER PD-Series switchgear
Operational Records		Event history (stores up to 100 system events) Last start date Number of starts Number of starts since last maintenance Operating days since last maintenance Operating mode—standby or prime power Run time (total, loaded and unloaded hours, and total kW hours) Run time since maintenance (total, loaded, and unloaded hours and total kW hours) System shutdowns System warnings Time, date and day of week
Accessories		Monitor III Software for monitoring and control (Windows®-based user interface) Converter, Modbus / Ethernet Run relay Key-controlled, master switch Prime power switch Remote annunciator panel Remote emergency stop panel

# DEC3+



THE KOHLER DEC3+ generator set controller provides system control, monitoring and diagnostics for optimum performance. It also provides both analog AC meters and engine gauges, and a 16-light annunciation of shutdowns, warnings and status events.

## Standard Features

- Supports Modbus RTU (Remote Terminal Unit communication protocol) via RS-485 networks
- Supports Modbus® TCP (Transmission Control Protocol) via Ethernet (Converter GM41143-KP1 required)
- Supports CANbus J1939 communication protocol for ECM engines
- Contains microcomputer-based logic with a ROM (read-only memory)-based control algorithm
- Upgradeable software for new system functionality
- Provides over-speed protection, cool-down mode and a selectable crank mode
- Meets the National Fire Protection Association requirements of NFPA 99 and NFPA 110 with additional accessories. NFPA 110, Level 1 requirements typically apply to health care facilities; NFPA 110, Level 2 requirements apply to less-critical applications
- Uses conformal coated circuit boards for environmental durability

## Operating Characteristics

- Power source with circuit protection: 12- or 24-volt DC
- Power draw: 220 milliamps in system ready mode (or 200 milliamps without panel lamps)
- Humidity range: 5% to 95% noncondensing
- Operating temperature range: -40°C to +70°C (-40°F to +158°F)
- Storage temperature range: -40°C to +85°C (-40°F to +185°F)
- Dimensions: 461 mm wide x 247 mm high x 297 mm deep

	Standard	Optional
User Interface		Fuses inside controller Frequency meter AC voltmeter Controller TB1 and TP2 terminal strips AC ammeter Annunciator panel lamps Scale lamps Selector switch Alarm silence switch Lamp test Generator set master switch Alarm horn Emergency stop switch (if equipped) DC voltmeter Water temperature gauge Voltage adjustment (if equipped) Oil pressure gauge Hour meter
Measurement		Analog gauges, 51 mm (2 in.): Pressure gauge, oil Temperature gauge, engine cooling system Voltmeter, DC battery Analog meters, 89 mm (3.5 in.): AC ammeter, 2% of full-scale accuracy AC voltmeter, 2% of full-scale accuracy Frequency meter, 0.5% of full-scale accuracy Running-time meter
Automatic Functions		Mode, prime power via jumper selection Shutdown, over-voltage protection Timer, engine cool down
Indicator Light/ Messages		Panel illumination lamps (2) Sixteen LED indicating lights for status, warnings and shutdowns Status indicators: Master switch not-in-auto; system ready Warning indicators: Auxiliary (multiple function) Battery charger Fuel, low-level or pressure Pressure, low oil Temperature, low water (engine) Temperature, high engine Voltage, high battery Voltage, low battery Shutdown indicators: Auxiliary (multiple function) Emergency stop Low fuel (utilizes auxiliary indicator) Level, low coolant (utilizes auxiliary indicator) Overcrank Overspeed Temperature, high engine Pressure, low oil Underfrequency (utilizes auxiliary indicator) Panel illumination lamps (2) Horn, alarm (with silencing switch) Potentiometer, generator output voltage-adjusting Switch, latch-type emergency stop Switch, lamp test Switch, meter range selector Switch, run, off/reset, auto (engine start) generator set master
Accessories		Hand-held diagnostic fault detector Controller-mounted emergency stop switch Remote annunciator panel Communication module Converter, Modbus®/ Ethernet

Modbus® is a registered trademark of Schneider Electric.

# AUTOMATIC TRANSFER SWITCHES

## SAFE, DEPENDABLE PROTECTION FOR CRITICAL FACILITIES

Bridging the utility with standby power is no small job, which is why KOHLER® transfer switches are indispensable to the all-KOHLER power system. The MPAC™ 1500 — Kohler’s new generation of transfer switches — is loaded with sophisticated technologies and advanced design features that ensure transfer of power to critical-load applications. When power fails, power is transferred from the standby system within one-sixth of a second. And you continue functioning as normal.

## KOHLER PROVIDES A COMPLETE RANGE OF AUTOMATIC TRANSFER SWITCHES.

There are a large number of benefits to our technology, both in terms of cost and ease of installation. The design of the control units and boxes enables even cables with large cross sections to be easily connected. The front panel of the unit no longer opens on just one side, like a conventional control unit, but on three sides, allowing total access to all the connections for the power equipment and terminal blocks. All our control units are either three-pole or four-pole. The transfer switch control logic is fitted as standard to our entire range of automatic transfer switches, whatever the rating of their switching component (from 30A to 4000A).



		800 - 1000A		1200A		1600 - 2000A		2600 - 3000A		4000A	
Voltage	208-600 V 50/60 Hz	•	•	•	•	•	•	•	•	•	•
Changeover		Open Transition	Programmed Transition	Open Transition	Programmed Transition	Open Transition	Programmed Transition	Open Transition	Programmed Transition	Open Transition	Programmed Transition
Dimensions	Height, mm	1932	1932	2286	2286	2286	2286	2286	2286	2286	2286
	Width, mm	864	864	963	963	965	963	963	963	1168	1166
	Depth, mm	515	515	686	688	1220	1220	1524	1524	1829	1828

Available in 3 or 4 poles





**MPAC™ 1500 transfer switch**

- LCD display
- User interface keypad
- LED indicators on front panel
- USB port for uploading and downloading
- RJ-45 ethernet connection
- Modbus® protocols

**MPAC™ 1000 transfer switch**

- User interface keypad
- LED indicators on front panel
- Selectable operating modes
- Modbus protocols

**HIGHLIGHTS**

- 30 to 4000 amps
- Standard and programmed transition
- Communications interface capability
- Programmable inputs and outputs
- Automatic and non-automatic modes

**ACCESSORIES**

- Alarm module
- Battery chargers
- Monitor software
- Metering



MPAC™ 1500 transfer switch

Modbus® is a registered trademark of Schneider Electric.

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