

Model:

KG200

200-600 V

Gas

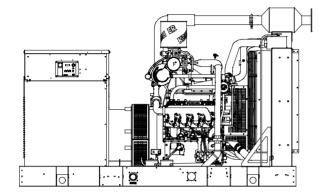


EPA-Certified for Stationary Emergency Applications

Ratings Range

 Standby:
 kW
 120-160
 150-200

 kVA
 150-200
 150-250



Generator Set Ratings

				Natura		LP Ga	_	
				130°C I		130°C F		
				Standby	•	Standby	•	
Alternator	Voltage	Ph	Hz	kW/kVA	Amps	kW/kVA	Amps	
	120/208	3	60	180/225	625	150/188	522	
	127/220	3	60	190/238	625	150/188	494	
	120/240	3	60	180/225	542	150/188	453	
	220/380	3	60	165/206	313	150/188	286	
	254/440	3	60	190/238	313	150/188	247	
4S13X	277/480	3	60	200/250	301	150/188	227	
43137	347/600	3	60	180/225	217	150/188	181	
_	115/200	3	50	160/200	578	120/150	434	
	110/220	3	50	156/195	512	120/150	394	
	220/380	3	50	156/195	297	120/150	228	
	230/400	3	50	160/200	289	120/150	217	
	240/416	3	50	160/200	278	120/150	209	
	120/208	3	60	200/250	694	150/188	522	
	127/220	3	60	200/250	657	150/188	494	
	120/240	3	60	200/250	602	150/188	453	
	220/380	3	60	200/250	380	150/188	286	
	254/440	3	60	200/250	329	150/188	247	
41.140	277/480	3	60	200/250	301	150/188	227	
4UA9	347/600	3	60	200/250	241	150/188	181	
-	115/200	3	50	160/200	577	120/150	434	
	110/220	3	50	160/200	525	120/150	394	
	220/380	3	50	160/200	304	120/150	228	
	230/400	3	50	160/200	289	120/150	217	
	240/416	3	50	160/200	278	120/150	208	

Standard Features

- Kohler Co. provides one-source responsibility for the generating system and accessories.
- The generator set and its components are prototypetested, factory-built, and production-tested.
- The 60 Hz generator set offers a cULus listing.
- The generator set accepts rated load in one step.
- The 60 Hz generator set meets NFPA 110, Level 1, when equipped with the necessary accessories and installed per NFPA standards.
- A one-year limited warranty covers all generator set systems and components. Two- and five-year extended limited warranties are also available.
- Alternator features:
 - The unique Fast-Response[®] X excitation system delivers excellent voltage response and short-circuit capability using a rare-earth, permanent magnet (PM)-excited alternator. (For 4S13X Alternator)
 - The unique Fast-Response[®] II excitation system delivers excellent voltage response and short-circuit capability using a permanent magnet (PM)-excited alternator.
 - (For 4UA13 and 4UA9 Alternators)
 - The brushless, rotating-field alternator has broadrange reconnectability.
- Natural gas, LP gas, and dual fuel models are available.
- Dual fuel model features:
 - Natural gas is the primary fuel. Automatically transfers back to primary fuel when LPG fuel becomes low or generator stops and restarts.
 - The patented reset box on the generator provides the ability to manually transfer back to natural gas.
 - The natural gas rating is available when running on natural gas.
 - APM603 controller provides load shed for automatic derate to LPG ratings to prevent an overload condition.



Generator Set Ratings, continued

				130°C	al Gas C Rise	LP G 130°C	Rise
				Standb	y Rating	Standby	Rating
Alternator	Voltage	Ph	Hz	kW/kVA	Amps	kW/kVA	Amps
	120/208	3	60	200/250	694	150/188	522
	127/220	3	60	200/250	657	150/188	494
	120/240	1	60	190/190	792	150/150	625
	120/240	3	60	200/250	602	150/188	453
	220/380	3	60	200/250	380	150/188	286
	254/440	3	60	200/250	329	150/188	247
4UA13	277/480	3	60	200/250	301	150/188	227
	347/600	3	60	200/250	241	150/188	181
	115/200	3	50	160/200	578	120/150	434
	110/220	3	50	160/200	525	120/150	394
	220/380	3	50	160/200	304	120/150	228
	230/400	3	50	160/200	289	120/150	217
	240/416	3	50	160/200	278	120/150	209

RATINGS: All three-phase units are rated at 0.8 power factor. All single-phase units are rated at 1.0 power factor. Standby Ratings: The standby rating is applicable to varying loads for the duration of a power outage. There is no overload capability for this rating. Ratings are in accordance with ISO-8528-1 and ISO-3046-1. Obtain technical information bulletin (TIB-101) for ratings guidelines, complete ratings definitions, and site condition derates. The generator set manufacturer reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever.

Alternator Specifications

AI	Alternator Specifications				
Specifications		Alternator			
Manufacturer		Kohler			
Type		4-Pole, Rotating-Field			
Exciter type		Brushless, Rare-Earth Permanent Magnet			
Leads: quantity, t	type				
4SX, 4UA		12, Reconnectable			
Voltage regulator	•	Solid State, Volts/Hz			
Insulation:		NEMA MG1			
Material		Class H			
Temperature r	ise	130°C, Standby			
Bearing: quantity	, type	1, Sealed			
Coupling		Flexible Disc			
Amortisseur wind	lings	Full			
Voltage regulation	, no-load to full-load	Controller Dependent			
One-step load ac	ceptance	100% of Rating			
Unbalanced load capability		100% of Rated Standby Current			
Peak motor starti	ng kVA:	(35% dip for voltages below)			
480 V	4UA9 (12 lead)	700 (60 Hz)			
480 V	4S13X (12 lead)	570 (60 Hz)			
480 V	4UA13 (12 lead)	960 (60 Hz)			

- NEMA MG1, IEEE, and ANSI standards compliance for temperature rise and motor starting.
- Sustained short-circuit current of up to 300% of the rated current for up to 10 seconds.
- Sustained short-circuit current enabling downstream circuit breakers to trip without collapsing the alternator field.
- Self-ventilated and dripproof construction.
- Windings are vacuum-impregnated with epoxy varnish for dependability and long life.
- Superior voltage waveform from a two-thirds pitch stator and skewed rotor.

Application Data

Application	Application Data				
Engine					
Engine Specifications	60 Hz	50 Hz			
Manufacturer	Kohler				
Engine: model, type	KG10V08T-6	DGS, 10.3 L,			
		ocharged and			
		ooled			
Cylinder arrangement	· · · · · · · · · · · · · · · · · · ·	-8			
Displacement, L (cu. in.)		(632)			
Bore and stroke, mm (in.)		6 (4.6 x 4.7)			
Compression ratio	9.3				
Piston speed, m/min. (ft./min.)		(1425)			
Main bearings: quantity, type	*	Metal			
Rated rpm	1800	1500			
Max. power at rated rpm (NG), kW (HP)	227 (304)	` ,			
Max. power at rated rpm (LPG), kW (HP)	178 (239)	143 (192) Iron			
Cylinder head material					
Piston type and material		op Forged inum			
Crankshaft material		d Steel			
Valve (exhaust) material	•	onel			
Governor type		ronic			
Frequency regulation, no-load to full-load		onous			
Frequency regulation, steady state	±0.75%				
Frequency	Fixed				
Air cleaner type, all models	Dry				
Exhaust		•			
Exhaust System	60 Hz	50 Hz			

60 Hz	50 Hz
Dry	
41.6 (1469)	32.9 (1162)
764 (1407)	704 (1300)
19.8 (5.87)	5.85 (1.74)
14.3 (4.24)	4.2 (1.25)
	Dry 41.6 (1469) 764 (1407)

Engine Electrical

Engine Electrical System	60 Hz	50 Hz	
Ignition system	Coil	Pack	
Battery charging alternator:			
Ground (negative/positive)	Neg	ative	
Volts (DC)	1	12	
Ampere rating	1	30	
Starter motor rated voltage (DC)	1	12	
Battery, recommended cold cranking amps (CCA):			
Qty., rating for -18°C (0°F)	one	, 925	
Battery voltage (DC)	1	12	
Eugl			

1 401		
Fuel System	60 Hz	50 Hz
Fuel type	Natural Gas, LP Gas, Dual Fuel	
Fuel supply line inlet Natural gas, LPG, and Dual fuel	11,	
supply pressure, kPa (in. H ₂ O)	1.74-2.74 (7-11)	
Fuel Composition Limits *	Nat Gas	I D Cae

- -		\ /
Fuel Composition Limits *	Nat. Gas	LP Gas
Methane, % by volume	90 min.	_
Ethane, % by volume	4.0 max.	_
Propane, % by volume	1.0 max.	85 min.
Propene, % by volume	0.1 max.	5.0 max.
C ₄ and higher, % by volume	0.3 max.	2.5 max.
Sulfur, ppm mass	25	max.
Lower heating value,		
MJ/m³ (Btu/ft³), min.	33.2 (890)	84.2 (2260)

 Fuels with other compositions may be acceptable. If your fuel is outside the listed specifications, contact your local distributor for further analysis and advice.

Lubrication

Lubricating System	60 Hz	50 Hz	
Type	Full Pressure		
Oil pan capacity, L (qt.) §	11.3 (12)		
Oil pan capacity with filter, L (qt.) §	15.1 (16)		
Oil filter: quantity, type §	1, Cartridge		
& Kohler recommends the use of Ko	hler Genuine	oil and filters	

Cooling

Cooling		
Radiator System	60 Hz	50 Hz
Ambient temperature, °C (°F)*	50 (122)
Engine jacket water capacity, L (gal.)	11 ((2.9)
Radiator system capacity, including		
engine, L (gal.)	34	(9)
Engine jacket water flow, Lpm (gpm)	219 (58)	182 (48)
Heat rejected to cooling water at rated		
kW, dry exhaust, kW (Btu/min.)	102 (5800)	104 (5914)
Heat rejected to charge cooling air at		
rated kW, dry exhaust, kW (Btu/min.)	20.1 (1143)	23.5 (1336)
Heat rejected to engine oil at rated		
kW, dry exhaust, kW (Btu/min.)	20.5 (1165)	20 (1137)
Water pump type	Cen	trifugal
Fan diameter, including blades, mm (in.)	900	(35.4)
Fan, kWm (HP)	15 (20.1)	9 (12)
Max. restriction of cooling air, intake and		
discharge side of radiator, kPa (in. H ₂ O)	0.1	25 (0.5)

* Enclosure with enclosed silencer reduces ambient temperature capability by 5°C (9°F).

Operation Requirements

Air Requirements	60 Hz	50 Hz
Radiator-cooled cooling air, m³/min. (scfm)†	331 (11700)	275 (9700)
Combustion air, m³/min. (cfm) Heat rejected to ambient air:	11.33 (400)	9.77 (345)
Engine, kW (Btu/min.)	58.2 (3309)	40 (2275)
Alternator, kW (Btu/min.)	16 (910)	13.8 (784)
Air density = 1.20 kg/m ³ (0.075 l	bm/ft ³)	

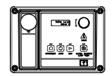
Fuel Consumption‡	60Hz	50Hz
Natural Gas, m3/hr. (cfh) at % load	Standby Ratings	
100%	67.9 (2398)	51.9 (1832)
75%	53.1 (1874)	40.7 (1436)
50%	38.2 (1350)	29.4 (1040)
25%	23.4 (826)	18.2 (644)
0%	8.5 (302)	7.0 (248)
LP Gas, m ³ /hr. (cfh) at % load	Standb	y Ratings
100%	23.5 (829)	18.9 (669)
75%	18.5 (654)	12.6 (443)
50%	13.6 (479)	9.3 (327)
25%	8.6 (304)	6.8 (239)
0%	3.7 (129)	2.8 (100)

‡ Nominal Fuel Rating: Natural gas, 37 MJ/m³ (1000 Btu/ft.³) LP vapor, 93 MJ/m³ (2500 Btu/ft.³)

LP vapor conversion factors:

 $8.58 \text{ ft.}^3 = 1 \text{ lb.}$ $0.535 \text{ m}^3 = 1 \text{ kg.}$ $36.39 \text{ ft.}^3 = 1 \text{ gal.}$

Controllers



APM402 Controller

Provides advanced control, system monitoring, and system diagnostics for optimum performance and compatibility.

- Digital display and menu control provide easy local data access
- Measurements are selectable in metric or English units
- Remote communication thru a PC via network or serial configuration
- Controller supports Modbus® protocol
- Integrated hybrid voltage regulator with ±0.5% regulation
- Built-in alternator thermal overload protection
- NFPA 110 Level 1 capability

Refer to G6-161 for additional controller features and accessories.



APM603 Controller

- Provides advanced control, system monitoring, and system diagnostics for optimum performance and compatibility.
- 7-inch graphic display with touch screen and menu control provides easy local data access
- · Measurements are selectable in metric or English units
- Load management to connect and disconnect loads as required
- Controller supports Modbus® RTU, Modbus® TCP, SNMP and BACnet®
- Integrated voltage regulator with ±0.25% regulation
- Built-in alternator thermal overload protection
- UL-listed overcurrent protective device
- NFPA 110 Level 1 capability

Refer to G6-162 for additional controller features and accessories.

Modbus® is a registered trademark of Schneider Electric.



KOHLER CO., Kohler, Wisconsin 53044 USA Phone 920-457-4441, Fax 920-459-1646 For the nearest sales and service outlet in the US and Canada, phone 1-800-544-2444 KOHLERPower.com

Standard Features

- Air Cleaner Restrictor Indicator
- Alternator Protection
- · Battery Rack and Cables
- Closed Crankcase Ventilation (CCV) Filter
- Dual Fuel Reset Box (standard on dual fuel models)
- Gas Fuel System (includes fuel mixer, electronic secondary gas regulator, gas solenoid valve, and flexible fuel line between the engine and the skid-mounted fuel system components)
- Integral Vibration Isolation
- Local Emergency Stop Switch

□ cULus (UL 2200 and CSA) □ IBC Seismic Certification

Sound Enclosure Only)

■ Exhaust Silencer, Critical **Fuel System**

Enclosed Unit

Open Unit

□ Flexible Fuel Line ☐ Fuel Filter Kit

- Oil Drain Extension
- Operation and Installation Literature
- Open Unit Accessory Kit (Duct Flance, Stone Guard, and

☐ Hurricane Rated Enclosure (Available with Premium Aluminum

☐ Sound Enclosure (with enclosed critical silencer)

☐ Dual Fuel NG/LPG (automatic changeover)

☐ Four Input/Fifteen Output Module □ Lockable Emergency Stop

Remote Annunciator Panel

Run Relay, 12 V

Remote Emergency Stop Switch

☐ Weather Enclosure (with enclosed critical silencer)

□ Secondary Gas Solenoid Valve (UL Fuel System)

☐ Manual Speed Adjust (APM402 controller only) ☐ Manual Key Switch (APM603 controller only)

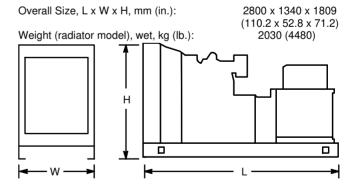
☐ Failure Relay w/Harness,1 Fault (APM603 controller only)

Paralleling, Gen Mounted EOB (APM603 controller only)

Two Input/Five Output Module (APM402 controller only)

Paralleling, Remote Mounted EOB (APM603 controller only)

☐ Engine Fluids (oil and coolant) Added
Rodent GuardsSkid End Caps
Literature ☐ General Maintenance ☐ NFPA 110 ☐ Overhaul ☐ Production Warranty ☐ 2-Year Basic Limited Warranty
 5-Year Basic Limited Warranty 5-Year Comprehensive Limited Warranty 10-Year Extended Warranty
Other Options



NOTE: This drawing is provided for reference only and should not be used for planning

installation. Contact your local distributor for more detailed information.	
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Dimensions and Weights

Cooling System

Electrical System

Battery Heater, 120 V

Alternator Strip Heater

receptacles.)

Miscellaneous

Batterv

☐ Block Heater, 1500 W, 120 V

Block Heater, 1500 W, 240 V

Battery Charger (6A or 10A)

Required for ambient temperatures below 10°C (50°F)

Temperature Compensation for 10A Battery Charger

Basic Electrical package (Includes 30 A terminal strip, DC light

switch, 20 A, 240 VAC receptacle, and 20 A, 120 VAC GFI

installation. Contact your local distributor for more detailed information.	
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