

Model: 200REOZJF

208-600 V

Diesel

Tier 3 EPA-Certified for Stationary Emergency Applications

200

250

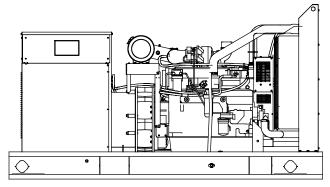
180 225

Ratings Range

Standby:	kW kVA
Prime:	kW kVA

	60 Hz
,	168-20
A	195-25
,	158-18
A	175-22





Generator Set Ratings

A 14		DI.		130°C Standby	Rating	105°C Prime F	Rating
Alternator	Voltage	Ph	Hz	kW/kVA	Amps	kW/kVA	Amps
	120/208	3	60	184/230	638	173/216	600
	127/220	3	60	194/243	636	180/225	590
4S13X	120/240	3	60	184/230	553	173/216	520
45137	139/240	3	60	200/250	601	180/225	541
	220/380	3	60	168/210	319	158/198	300
	277/480	3	60	200/250	301	180/225	271
	120/208	3	60	200/250	694	180/225	625
	127/220	3	60	200/250	656	180/225	590
	120/240	3	60	200/250	601	180/225	541
4UA9	139/240	3	60	200/250	601	180/225	541
	220/380	3	60	200/250	380	180/225	342
	277/480	3	60	200/250	301	180/225	271
	347/600	3	60	200/250	241	180/225	217
	120/208	3	60	200/250	694	180/225	625
	127/220	3	60	200/250	656	180/225	590
	120/240	3	60	200/250	601	180/225	541
4UA13	120/240	1	60	195/195	813	175/175	729
40413	139/240	3	60	200/250	601	180/225	541
	220/380	3	60	200/250	380	180/225	342
	277/480	3	60	200/250	301	180/225	271
	347/600	3	60	200/250	241	180/225	217

Standard Features

- · Kohler Co. provides one-source responsibility for the generating system and accessories.
- Approved for use with certified renewable Hydrotreated Vegetable Oil (HVO) / Renewable Diesel (RD) fuels compliant with EN15940 / ASTM D975.
- The generator set and its components are • prototype-tested, factory-built, and production-tested.
- The 60 Hz generator set offers a UL 2200 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 0 delivers excellent voltage response and short-circuit capability using a rare-earth, permanent magnet (PM)-excited alternator. (4S13X alternator)
 - The unique Fast-Response[®] II excitation system delivers excellent voltage response and short-circuit capability using a permanent magnet (PM)-excited alternator.
 - (4UA9 and 4UA13 alternators)
 - The brushless, rotating-field alternator has broadrange reconnectability.
- Other features:
 - Kohler designed controllers for one-source system integration and remote communication. See Controllers on page 3.
 - The low coolant level shutdown prevents 0 overheating (standard on radiator models only).
 - Integral vibration isolation eliminates the need for 0 under-unit vibration spring isolators.
- Multiple circuit breaker configurations.
- Mount up to three circuit breakers to allow circuit protection of selected priority loads.

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. *Prime Power Ratings:* 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 and ISO-3046-1. For limited running time and continuous ratings, consult the factory. Obtain technical information bulletin (TIB-101) for ratings guidelines, complete ratings effinitions, 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

Alternator		, ,	I standards compliance for
Kohler	temperati	are rise and motor s	tarting.
4-Pole, Rotating-Field			nt of up to 300% of the rated
Brushless, Permanent-Magnet	current fo	r up to 10 seconds.	
12, Reconnectable	breakers	to trip without collap	osing the alternator field.
Solid State, Volts/Hz	 Self-venti 	lated and dripproof	construction.
NEMA MG1	 Windings 	are vacuum-impred	inated with enoxy varnish for
Class H			indied with epoxy variish for
130°C, Standby		, 0	
1, Sealed		Q	om a two-thirds pitch stator and
Flexible Disc	Skeweun	5101.	
Full	Specificatio	ns	Alternator
	Peak motor s	starting kVA:	(35% dip for voltages below)
Controller Dependent	480 V	4S13X (12 lead)	570
100% of Rating	480 V	4UA9 (12 lead)	700
100% of Rated Standby Current	480 V	4UA13 (12 lead)	960
	Kohler 4-Pole, Rotating-Field Brushless, Permanent-Magnet 12, Reconnectable Solid State, Volts/Hz NEMA MG1 Class H 130°C, Standby 1, Sealed Flexible Disc Full Controller Dependent 100% of Rating	Kohlertemperate4-Pole, Rotating-FieldSustainedBrushless, Permanent-MagnetSustained12, ReconnectableSustainedSolid State, Volts/HzSelf-ventiNEMA MG1WindingsClass HSuperior v130°C, StandbySuperior v1, SealedSuperior vFlexible DiscSpecificationFullSpecificationController Dependent480 V100% of Rating480 V	Kohlertemperature rise and motor s4-Pole, Rotating-FieldSustained short-circuit currentBrushless, Permanent-MagnetSustained short-circuit current12, ReconnectableSustained short-circuit currentSolid State, Volts/HzSustained short-circuit currentNEMA MG1Self-ventilated and dripproofClass HSuperior voltage waveform fr130°C, StandbySuperior voltage waveform fr1, SealedSuperior voltage waveform frFlexible DiscPeak motor starting kVA:Controller Dependent480 V100% of Rating480 V480 V4UA9 (12 lead)

Engine

Engine Specifications	
Manufacturer	John Deere
Engine model	6068HFG85A
Engine type	4-Cycle, Turbocharo Charge Air-Coole
Cylinder arrangement	6 Inline
Displacement, L (cu. in.)	6.8 (415)
Bore and stroke, mm (in.)	106 x 127 (4.19 x 5
Compression ratio	17.0:1
Piston speed, m/min. (ft./min.)	457 (1500)
Main bearings: quantity, type	7, Replaceable Ins
Rated rpm	1800
Max. power at rated rpm, kWm (BHP)	235 (315)
Cylinder head material	Cast Iron
Crankshaft material	Forged Steel
Valve material:	
Intake	Chromium-Silicon S
Exhaust	Stainless Steel
Governor: type, make/model	JDEC Electronic L Denso HP3
Frequency regulation, no-load to full-load	Isochronous
Frequency regulation, steady state	±0.25%
Frequency	Fixed

rged, ed 5.00) sert Steel L14

Dry

Engine Electrical

Engine Electrical System	
Battery charging alternator:	24 Volt
Ground (negative/positive)	Negative
Volts (DC)	24
Ampere rating	45
Starter motor rated voltage (DC)	24
Battery, recommended cold cranking amps (CCA):	
Quantity, CCA rating each	Two, 925
Battery voltage (DC)	12

Fuel

Fuel System	
Fuel supply line, min. ID, mm (in.)	11.0 (0.44)
Fuel return line, min. ID, mm (in.)	6.0 (0.25)
Max. lift, fuel pump: type, m (ft.)	Mechanical, 1.8 (6.0)
Max. fuel flow, Lph (gph)	92.7 (24.5)
Max. return line restriction, kPa (in. Hg)	20 (5.9)
Fuel prime pump	Manual
Fuel filter	
Primary	30 Microns
Secondary	2 Microns @ 98% Efficiency
Water Separator	Yes
Recommended fuel	#2 Diesel / HVO/ RD

Lubrication

Lubricating System		
Туре	Full Pressure	
Oil pan capacity, L (qt.) §	32.5 (34.4)	
Oil pan capacity with filter, L (qt.) \S	33.4 (35.3)	
Oil filter: quantity, type §	1, Cartridge	
Oil cooler	Water-Cooled	
§ Kohler recommends the use of Kohler Genuine oil and filters.		

Exhaust

Air cleaner type, all models

Exhaust System	
Exhaust manifold type	Dry
Exhaust flow at rated kW, m ³ /min. (cfm)	42.8 (1510)
Exhaust temperature at rated kW, dry exhaust, °C (°F)	527 (980)
Maximum allowable back pressure, kPa (in. Hg)	Min. 4 (1.2) Max. 10 (3.0)
Exhaust outlet size at engine hookup, mm (in.)	98 (3.86)

Application Data

Cooling

Radiator System	
Ambient temperature, °C (°F) *	50 (122)
Engine jacket water capacity, L (gal.)	11.3 (3.0)
Radiator system capacity, including engine, L (gal.)	27.6 (7.3)
Engine jacket water flow, Lpm (gpm)	230.9 (61)
Heat rejected to cooling water at rated kW, dry exhaust, kW (Btu/min.)	94.2 (5360)
Heat rejected to air charge cooler at rated kW, dry exhaust, kW (Btu/min.)	56.1 (3190)
Water pump type	Centrifugal
Fan diameter, including blades, mm (in.)	787 (31)
Fan, kWm (HP)	8.6 (11.5)
Max. restriction of cooling air, intake and discharge side of radiator, kPa (in. H_2O)	0.125 (0.5)

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

Operation Requirements

Air Requirements	
Radiator-cooled cooling air, m ³ /min. (scfm)‡	368.1 (13000)
Combustion air, m ³ /min. (cfm)	17.6 (620)
Heat rejected to ambient air:	
Engine, kW (Btu/min.)	46.9 (2670)
Alternator, kW (Btu/min.)	18.5 (1050)
‡ Air density = 1.20 kg/m ³ (0.075 lbm/ft ³)	

Fuel Consumption**			
Diesel, Lph (gph) at % load	Standby Rating		
100%	58.0	(15.3)	
75%	43.3	(11.4)	
50%	31.4	(8.3)	
25%	19.7	(5.2)	
Diesel, Lph (gph) at % load	Prime Rating		
100%	50.1	(13.2)	
75%	36.1	(9.5)	
50%	25.7	(6.8)	
25%	16.6	(4.4)	

** Fuel consumption is up to 4% higher when using HVO/RD than #2 ULSD.

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
- Paralleling capability to control up to 8 generators on an isolated bus with first-on logic, synchronizer, kW and kVAR load sharing, and protective relays
- Note: Parallel with other APM603 controllers only
- Generator management to turn paralleled generators off and on as required by load demand
- 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.

Decision-Maker[®] 6000 Paralleling Controller

Provides advanced control, system monitoring, and system diagnostics with remote monitoring capabilities for paralleling multiple generator sets.

 Paralleling capability to control up to 8 generators on an isolated bus with first-on logic, synchronizer, kW and kVAR load sharing, and protective relays

Note: Parallel with other Decision-Maker[®] 6000 controllers only

- Digital display and keypad provide easy local data access
- · Measurements are selectable in metric or English units
- Remote communication thru a PC via network or modem configuration
- Controller supports Modbus[®] protocol
- Integrated voltage regulator with ±0.25% regulation
- Built-in alternator thermal overload protection
- NFPA 110 Level 1 capability

Refer to G6-107 for additional controller features and accessories.

Modbus® is a registered trademark of Schneider Electric.

BACnet® is a registered trademark of ASHRAE.

KOHLER_®

Standard Features

- Alternator Protection
- Battery Rack and Cables
- Customer Connection
- (standard with Decision-Maker® 6000 controller only)

Rating

Operation

Electrically Operated (for paralleling)

Manual

80%

100%

- Local Emergency Stop Switch
- Oil Drain Extension
- Operation and Installation Literature

Available Options

Circuit Breakers

Type Magnetic Trip Thermal Magnetic Trip Electronic Trip (LI)

- Electronic Trip with
- Short Time (LSI)
- Ground Fault (LSIG)

Circuit Breaker Mounting

- Generator Mounted
- Remote Mounted
- Bus Bar (for remote mounted breakers)
- Enclosures for Remote Mounted Circuit Breakers
- NEMA 1
- NEMA 3R

Approvals and Listings

- HCAI Pre- Approval
- CSA Certified
- IBC Seismic Certification
- UL 2200 Listing
- Hurricane Rated Enclosure

Enclosed Unit

- Sound Enclosure (with enclosed critical silencer)
- Weather Enclosure (with enclosed critical silencer)
 Open Unit
- Exhaust Silencer, Critical (kit: PA-354809)
- Flexible Exhaust Connector, Stainless Steel

Fuel System

- G Flexible Fuel Lines
- Fuel Pressure Gauge
- Subbase Fuel Tanks

Controller

- Common Failure Relay
- (Decision-Maker® 6000 and APM603 controllers only)
- Decision-Maker® Paralleling System (DPS) (Decision-Maker® 6000 controller only)
- Dry Contact (isolated alarm) (Decision-Maker[®] 6000 controller only)
- Two Input/Five Output Module (APM402 controller only)
- Four Input/Fifteen Output Module (APM603 controller only)
- Lockable Emergency Stop Switch
- Remote Emergency Stop Switch
- Remote Serial Annunciator Panel
- Run Relay (standard with APM603, optional with others)
- Manual Key Switch (APM603 controller only)
- Manual Speed Adjust (APM402 controller only)

Cooling System

- Block Heater, 1800 W, 90-120 V, 1 Ph
- Block Heater, 2000 W, 190- 240 V, 1 Ph Required for ambient temperature below 0°C (32°F)

KOHLERPower.com

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

Radiator Duct Flange

Electrical System

- Generator Heater
- Battery
- Battery Charger, Equalize/Float Type
 Battery Heater
 - Battery Heater Miscellaneous
- Air Cleaner, Heavy Duty
- Air Cleaner Restriction Indicator
- Certified Test Report
- Crankcase Emissions Canister
- Engine Fluids Added
- Rated Power Factor Testing
- Rodent Guards

Literature

- General Maintenance
- D NFPA 110
- Overhaul
- Production

Warranty

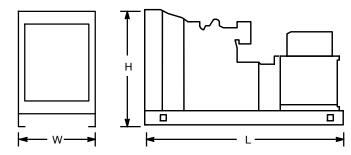
- 2-Year Basic Limited Warranty
- 5-Year Basic Limited Warranty
- 5-Year Comprehensive Limited Warranty

Dimensions and Weights

Overall Size, L x W x H, mm (in.):

Weight (radiator model), wet, kg (lb.):

3000 x 1300 x 1672 (118.1 x 51.2 x 65.8) 1923 (4240)



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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