



The Kohler® Advantage

- **High Quality Power**
Kohler home generators provide advanced voltage and frequency regulation along with ultra-low levels of harmonic distortion for excellent generator power quality to protect your valuable electronics.
- **Fast Response**
Kohler's Fast-Response® X excitation system delivers excellent voltage response and short-circuit capability using a rare-earth permanent magnet (PM)-excited alternator.
- **Quiet Operation**
Kohler home generators provide quiet, neighborhood-friendly performance.
- **Premium 5-year/2000 hr Limited Warranty Included**
Kohler is known for extraordinary reliability and performance. Kohler's premium limited warranty covers parts, labor, and travel for the full warranty period.
- **Aluminum Enclosure**
Attractive aluminum enclosure allows installation as close as 18 inches from your home or small business. Optional 291 kph (181 mph) wind-load-rated enclosure door kit is available for field installation.

Standard Features

- The generator set and its components are prototype-tested, factory-built, and production-tested.
- The generator set accepts rated load in one step.
- A premium 5-year/2000-hour limited warranty covers all systems and components.
- Quick-ship (QS) models with selected features are available. See your Kohler dealer for details.
- GFCI service outlet installed on the junction box.
- RDC2 Controller
 - One digital controller manages both the generator set and transfer switch functions (with optional Model RXT ATS).
 - Designed for today's most sophisticated electronics.
 - Electronic speed control responds quickly to changing demand.
 - Digital voltage regulation protects your valuable electronics from harmonic distortion and unstable power quality.
 - OnCue® Plus Generator Management System for remote monitoring is included with the generator.
- Engine Features
 - Powerful and reliable Kohler 6.2L liquid-cooled engine
 - Electronic engine management system.
 - Simple field conversion between natural gas and LP vapor fuels while maintaining emission certification. (Optional dual fuel automatic changeover kit is available.)
- Innovative Cooling System
 - Electronically controlled fan speeds minimize generator set sound signature.
- Approved for stationary standby applications in locations served by a reliable utility source.
- Certifications
 - The 60 Hz generator set engine is certified by the Environmental Protection Agency (EPA) to conform to the New Source Performance Standard (NSPS) for stationary spark-ignited emissions.
 - cUL/UL listing, CSA certification standard are available.
 - Accepted by the Massachusetts Board of Registration of Plumbers and Gas Fitters.
 - Meets NFPA 37 requirements for 18 in. offset for installation.

Generator Set Ratings

Alternator	Voltage	Ph	Hz	Standby Ratings Natural Gas		Standby Ratings LPG		Line Circuit Breaker	
				kW/kVA	Amps	kW/kVA	Amps	Amps	Poles
4P7BX	120/240*	1	60	44/44	184	44/44	184	—	—
	120/208	3	60	48/60	167	50/62	174	175	3
	127/220*	3	60	48/60	158	50/62	165	—	—
	120/240	3	60	48/60	145	50/62	151	150	3
4Q7BX	277/480	3	60	48/60	73	50/62	76	80	3
	120/240	1	60	48/48	200	48/48	200	200	2

* Voltage configuration not available from the factory. Field-adjustable by an authorized service technician.

† 50 Hz options are available. Contact your Customer Service representative.

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:* Standby ratings apply to installations served by a reliable utility source. 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. Availability is subject to change without notice. Contact your local Kohler generator dealer for availability.

Alternator Specifications

Specifications	Alternator
Manufacturer	Kohler
Type	4-Pole, Rotating Field
Exciter type	Brushless, Rare-Earth Permanent Magnet
Leads: quantity, type	
4Q7BX	4, 120/240
4P7BX	12, Reconnectable
Voltage regulator	Solid State, Volts/Hz
Insulation:	NEMA MG1
Material	Class H
Temperature rise	130°C, Standby
Bearing: quantity, type	1, Sealed
Coupling	Flexible Disc
Amortisseur windings	Full
Voltage regulation, no-load to full-load	±1.0% RMS
Unbalanced load capability	100% of Rated Standby Current
One-step load acceptance	100% of Rating
Peak motor starting kVA:	(35% dip for voltages below)
480 V, 400 V	4P7BX (12 lead) 180 (60 Hz)
240 V	4Q7BX (4 lead) 113 (60 Hz)

- The unique Fast-Response® X excitation system delivers excellent voltage response and short-circuit capability using a rare-earth, permanent magnet (PM)-excited alternator.
- Brushless, rotating-field alternator.
- 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.
- Total harmonic distortion (THD) from no load to full load with a linear load is less than 4%.

Application Data

Engine

Engine Specifications	60 Hz
Manufacturer	Kohler
Engine: model, type	KG6208 6.2L Natural Aspiration
Cylinder arrangement	V-8
Rated rpm	1800
Displacement, L (cu. in.)	6.2 (378)
Bore and stroke, mm (in.)	101.6 x 95.25 (4.00 x 3.75)
Compression ratio	10.5:1
Max. power at rated rpm, kW (HP)	77.0 (103)
Cylinder head material	Cast Aluminum
Piston type and material	High Silicon Aluminum
Crankshaft material	Cast Iron
Valve (exhaust) material	Forged Steel
Governor type	Electronic
Frequency regulation, no-load to full-load	Isochronous
Frequency regulation, steady state	±1.0%
Frequency	Fixed
Air cleaner type	Dry

Engine Electrical

Engine Electrical System	
Ignition system	Electronic
Battery charging alternator:	
Ground (negative/positive)	Negative
Volts (DC)	12
Ampere rating	130
Starter motor rated voltage (DC)	12
Battery, recommended cold cranking amps (CCA):	
Qty., rating for -18°C (0°F)	One, 630
Battery voltage (DC)	12
Battery group size	24

Exhaust

Exhaust System	60 Hz
Exhaust manifold type	Dry
Exhaust flow at rated kW, m ³ /min. (cfm)	16.4 (580)
Exhaust temperature at rated kW, dry exhaust, °C (°F)	649 (1200)
Maximum allowable back pressure, kPa (in. Hg)	10.2 (3.0)
Exhaust outlet size at engine hookup, mm (in.)	76 (3.0) OD

Fuel

Fuel System	
Fuel type	LP Gas or Natural Gas
Fuel supply line inlet	1 in. NPT
Natural gas fuel supply pressure, kPa (in. H ₂ O)	1.2-2.7 (5-11)
LPG vapor withdrawal fuel supply pressure, kPa (in. H ₂ O)	1.2-2.7 (5-11)

Fuel Composition Limits *	Nat. Gas	LP Gas
Methane, % by volume	92 min.	—
Ethane, % by volume	4.5 max.	—
Propane, % by volume	1.0 max.	87 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/m ³ (Btu/ft ³), 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	
Type	Full Pressure
Oil pan capacity, L (qt.)	5.7 (6.0)
Oil pan capacity with filter, L (qt.)	7.1 (7.5)
Oil filter: quantity, type	1, Cartridge

Application Data

Cooling

Radiator System	60 Hz
Ambient temperature, °C (°F)	45 (113)
Radiator system capacity, including engine, L (gal.)	21.3 (5.6)
Engine jacket water flow, Lpm (gpm)	131 (34.6)
Heat rejected to cooling water at rated kW, dry exhaust, kW (Btu/min.)	48 (2730)
Water pump type	Centrifugal
Fan diameter, mm (in.)	qty. 3 @ 356 (14)
Fan power requirements (powered by engine battery charging alternator)	12VDC, 18 amps each

Operation Requirements*

Air Requirements	60 Hz
Radiator-cooled cooling air, m ³ /min. (scfm)†	62.2 (2200)
Air over engine, m ³ /min. (cfm)	31.1 (1100)
Combustion air, m ³ /min. (cfm)	5.5 (195)
† Air density = 1.20 kg/m ³ (0.075 lbm/ft ³)	

Fuel Consumption‡

Natural Gas, m ³ /hr. (cfh) at % load	60 Hz
100%	24.8 (875)
75%	20.3 (717)
50%	14.5 (512)
25%	8.7 (307)

LP Gas, at % load	m ³ /hr. (cfh)	Gal/hr.
100%	8.9 (315)	8.7
75%	6.3 (222)	6.1
50%	4.7 (165)	4.5
25%	3.0 (106)	2.9

‡ Nominal Fuel Rating: Natural gas, 37 MJ/m³ (1000 Btu/ft³)
LP Vapor, 93 MJ/m³ (2500 Btu/ft³)

LP vapor conversion factors:

8.58 ft.³ = 1 lb.

0.535 m³ = 1 kg.

36.39 ft.³ = 1 gal.

* 50 Hz Operation Requirements are available upon request.

Sound Enclosure Features

- Sound-attenuating enclosure uses acoustic insulation that meets UL 94 HF1 flammability classification and repels moisture absorption.
- Internally mounted critical silencer.
- Skid-mounted, aluminum construction with two removable access panels.
- Scratch- and corrosion-resistant Kohler® cashmere powder-baked finish.

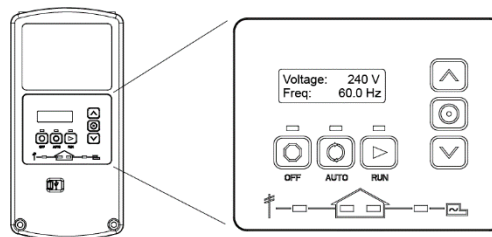
Sound Data

Model 48RCLC sound levels are 61 dB(A) during engine exercise and 61 dB(A) during normal operation.*

All sound levels are measured at a distance of 23 ft. (7 m) from the generator set.

* Lowest of 8 points measured around the generator. Sound levels at other points around generator may vary depending on installation parameters.

RDC2 Controller



The RDC2 controller provides integrated control for the generator set, Kohler® Model RXT transfer switch, programmable interface module (PIM), and load shed kit.

The RDC2 controller's 2-line LCD screen displays status messages and system settings that are clear and easy to read, even in direct sunlight or low light.

RDC2 Controller Features

- Membrane keypad:
 - OFF, AUTO, and RUN pushbuttons
 - Select and arrow buttons for access to system configuration and adjustment menus
- LED indicators for OFF, AUTO, and RUN modes
- LED indicators for utility power and generator set source availability and ATS position (Model RXT transfer switch required)
- LCD screen:
 - Two lines x 16 characters per line
 - Backlit display with adjustable contrast for excellent visibility in all lighting conditions
- Scrolling system status display
 - Generator set status
 - Voltage and frequency
 - Engine temperature
 - Oil pressure
 - Battery voltage
 - Engine runtime hours
- Date and time displays
- Smart engine cooldown senses engine temperature
- Digital isochronous governor to maintain steady-state speed at all loads
- Digital voltage regulation: ±1.0% RMS no-load to full-load
- Automatic start with programmed cranking cycle
- Programmable exerciser can be set to start automatically on any future day and time, and to run every week or every two weeks
- Exercise modes
 - Unloaded exercise with complete system diagnostics
 - Unloaded full-speed exercise
 - Loaded full-speed exercise (Model RXT ATS required)
- Front-access mini USB connector for SiteTech™ connection
- Integral Ethernet connector for Kohler® OnCue® Plus
- Built-in 2.5 amp battery charger
- Remote two-wire start/stop capability for optional connection of a Model RDT transfer switch

See additional controller features on the next page.

Additional RDC2 Controller Features

- Diagnostic messages
 - Displays diagnostic messages for the engine, generator, Model RXT transfer switch, programmable interface module (PIM), and load shed kit
 - Over 70 diagnostic messages can be displayed
- Maintenance reminders
- System settings
 - System voltage, frequency, and phase
 - Voltage adjustment
 - Measurement system, English or metric
- ATS status (Model RXT ATS required)
 - Source availability
 - ATS position (normal/utility or emergency/generator)
 - Source voltage and frequency
- ATS control (Model RXT ATS required)
 - Source voltage and frequency settings
 - Engine start time delay
 - Transfer time delays
 - Fixed pickup and dropout settings
 - Voltage calibration
- Programmable Interface Module (PIM) status displays
 - Input status (active/inactive)
 - Output status (active/inactive)
- Load control menus
 - Load status
 - Test function

Generator Set Standard Features

- Aluminum sound enclosure with enclosed silencer
- Battery rack and cables
- Coolant in generator
- cUL/UL 2200 listed, CSA certified
- Electronic, isochronous governor
- Engine-generator set is designed and manufactured in facilities certified to ISO:9001.
- Flexible fuel line
- Gas fuel system (includes fuel mixer, electronic secondary gas regulator, two gas solenoid valves, and flexible fuel line between the engine and the skid-mounted fuel system components)
- GFCI service outlet (120/240 V) for customer connections
- Integral vibration isolation
- Line circuit breaker
- NEC prime mover shutdown switch
- Oil drain extension
- OnCue® Plus for remote monitoring
- Operation and installation literature
- RDC2 controller with built-in battery charger
- Standard 5-year/2000-hour premium warranty

Available Options

Electrical System

- Battery
- Battery Heater
- OnCue® Plus Wireless Radio Kit

Fuel System

- Dual Fuel Automatic Changeover Kit with Reset Box

Available Options (continued)

Enclosure Option

- 291 kph (181 mph) Wind Load Rated Enclosure

Starting Aids §

- Block Heater, 1500 W, 120 V*
- Block Heater, 1500 W, 240 V

* Single phase QS available with factory installed block heater

§ Recommended for ambient temperatures below 0°C (32°F)

Controller Accessories

- Lockable Enclosure or Remote Mount Emergency Stop (lockout/tagout)
- Programmable Interface Module (PIM) (provides 2 digital inputs and 6 relay outputs)

Automatic Transfer Switches and Accessories

- Model RXT Automatic Transfer Switch with Combined Interface/Load Management Board
- Model RDT Automatic Transfer Switch
- Load Shed Kit for RDT or RXT
- Power Relay Modules (use up to 4 relay modules for each load management device)
- Other Kohler® ATS

Miscellaneous

- Maintenance Kit (includes air filter, oil, oil filter, and spark plugs)

Literature

- General Maintenance Literature Kit
- Overhaul Literature Kit
- Production Literature Kit

Warranty

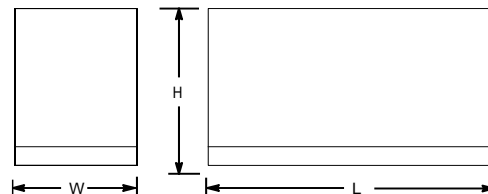
- Extended 7-Year/2000 Hour Premium Limited Warranty
- Extended 10-Year/2000 Hour Premium Limited Warranty

Dimensions and Weights

Overall Size, L x W x H, mm (in.): 2280 x 836 x 1182
(89.8 x 32.9 x 46.5)

Shipping Weight, wet, kg (lb.): 767 (1690)

Weight includes generator set with engine fluids and 4Q7BX alternator, sound enclosure, and silencer.



NOTE: This drawing is provided for reference only and should not be used for planning installation. Contact your local dealer for more detailed information.

DISTRIBUTED BY:

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