KOHLER Generators

Model: 24RCLA

Multi-Fuel
Natural Gas/LPG



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.
- **Quiet Operation**
  Kohler home generators provide quiet, neighborhood-friendly performance.
- **Premium 5-year/2000 hr Limited Warranty Included**
  Kohler generator is known for extraordinary reliability and performance. Kohler's premium limited warranty cover 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.

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 parts, labor, and travel for the full warranty period.
- Quick-ship (QS) models with selected features are available. See your dealer for details.
- Meets 291 kph (181 mph) wind load rating.
- 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 transfer switch).
  - Designed for today's most sophisticated electronics.
  - Electronic speed control responds quickly to varying household demand.
  - Digital voltage regulation protects your valuable electronics from harmonic distortion and unstable power quality.
  - Two-line, backlit LCD screen is easy to read in all lighting conditions, including direct sunlight and low light.
  - Able to connect to the internet using ethernet cable, wireless radios, or any other Wi-Fi adapters.
- Engine Features
  - Powerful and reliable 2.2 L liquid-cooled engine
  - Electronic engine management system.
  - Simple field conversion between natural gas and LPG fuels while maintaining emission certification.
- Innovative Cooling System
  - Electronically controlled fan speeds minimize generator set sound signature.
- 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.
  - cULus listed
  - Accepted by the Massachusetts Board of Registration of Plumbers and Gas Fitters.
  - Meets NFPA 37 requirements for 18 in. offset for installation.
- Approved for stationary standby applications in locations served by a reliable utility source.

Generator Set Ratings

				Standby Ratings					
				Natural Gas		LPG		Circuit Breaker	
Alternator	Voltage	Ph	Hz	kW/kVA	Amps	kW/kVA	Amps	Amps	Poles
4E5.0	120/240	1	60	21/21	88	24/24	100	100	2
4D5.0	120/240*	1	60	21/21	88	21/21	88	-	-
	120/208	3	60	21/26	73	23/29	81	90	3
	127/220*	3	60	21/26	69	23/29	77	-	-
	120/240	3	60	21/26	63	23/29	70	80	3
	277/480	3	60	21/26	32	23/29	35	40	3

* Voltage configuration not available from the factory. Field-adjustable by an authorized service technician. 50 Hz options 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. Due to manufacturing variations, the ratings tolerance is ±5%. *Standby Ratings:* Standby ratings apply to installations served by a reliable utility source. The standby rating is applicable to varying loads with an average load factor of 80% for the duration of a power outage. No overload capacity is specified for this rating. Ratings are in accordance with ISO-3046/1, BS 5514, AS 2789, and DIN 6271. GENERAL GUIDELINES FOR DERATING: *Altitude:* Derate 1.3% per 100 m (328 ft.) elevation above 200 m (656 ft.). *Temperature:* Derate 3.0% per 10°C (18°F) temperature above 25°C (77°F). Availability is subject to change without notice. The generator set manufacturer reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever. Contact your local authorized dealer for availability.

rehlko

Alternator Specifications

Specifications		Alternator	
Manufacturer		Kohler	
Type		4-Pole, Rotating Field	
Exciter type		Brushless, Wound-Field	
Leads: quantity, type			
4E5.0		4, 120/240	
4D5.0		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	
Voltage regulation, no-load to full-load		±1.0% Maximum	
Unbalanced load capability		100% of Rated Standby Current	
One-step load acceptance		100% of Rating	
Peak motor starting kVA:		(35% dip for voltages below)	
240 V	4E5.0 (4 lead)	37 (60 Hz)	
480 V, 400 V	4D5.0 (12 lead)	59 (60 Hz)	44 (50 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 drip-proof 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 5%.

Application Data

Engine

Engine Specifications	60 Hz
Manufacturer	Kohler
Engine: model, type	Residential Powertrain KG2204, 2.2 L, 4-Cycle Natural Aspiration
Cylinder arrangement	In-line 4
Displacement, L (cu. in.)	2.2 (134.25)
Bore and stroke, mm (in.)	91 x 86 (3.5 x 3.4)
Compression ratio	10.5:1
Piston speed, m/min. (ft./min.)	310 (1016)
Main bearings: quantity, type	5, plain alloy steel
Rated rpm	1800
Max. power at rated rpm, kW (HP)	
LPG	30 (40)
Natural Gas	27 (36)
Cylinder head material	Cast Iron
Piston type and material	High Silicon Aluminum
Crankshaft material	Nodular 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)	14
Ampere rating	90
Starter motor rated voltage (DC)	12
Battery, recommended rating for -18°C (0°F):	
Qty., cold cranking amps (CCA)	One, 630
Battery voltage (DC)	12
Battery group size	24

Exhaust

Exhaust System	60 Hz
Exhaust manifold type	Dry
Exhaust temperature at rated kW, dry exhaust, °C (°F)	633 (1171)
Maximum allowable back pressure, kPa (in. Hg)	7.5 (2.2)

Fuel

Fuel System	
Fuel type	Natural Gas or LPG
Fuel supply line inlet	1 in. NPT
Natural gas fuel supply pressure, kPa (in. H_2O)	1.2-2.7 (5-11)
LPG vapor withdrawal fuel supply pressure, kPa (in. H_2O)	1.2-2.7 (5-11)

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/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 dealer for further analysis and advice.

Lubrication

Lubricating System	
Type	Full Pressure
Oil pan capacity, L (qt.) §	4.2 (4.4)
Oil added during oil change (on average), L (qt.) §	3.3 (3.5)
Oil filter: quantity, type §	1, Cartridge

§ Kohler recommends the use of Kohler Genuine oil and filters.

Application Data

Cooling

Radiator System	60 Hz
Ambient temperature, °C (°F)	45 (113)
Engine jacket water capacity, L (gal.)	2.65 (0.7)
Radiator system capacity, including engine, L (gal.)	13.2 (3.5)
Water pump type	Centrifugal
Fan diameter, mm (in.)	qty. 3 @ 406 (16)
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)†	51 (1800)
Combustion air, m^3/min. (cfm)	1.4 (49)
Air over engine, m^3/min. (cfm)	25 (900)

† Air density = 1.20 kg/m^3 (0.075 lbm/ft^3)

Fuel Consumption‡	60 Hz	
Natural Gas, at % load	**m^3/hr. (cfh)**	
100%	8.5 (300)	
75%	6.4 (227)	
50%	4.9 (174)	
25%	4.1 (144)	
Exercise	2.9 (101)	
LP Gas, at % load	**m^3/hr. (cfh)**	**Gal/hr**
100%	3.8 (134)	3.7
75%	2.9 (104)	2.9
50%	2.2 (78)	2.1
25%	1.7 (62)	1.7
Exercise	1.1 (41)	1.1

‡ Nominal Fuel Rating: Natural gas, 37 MJ/m^3 (1000 Btu/ft^3)
LP Vapor, 93 MJ/m^3 (2500 Btu/ft^3)

LP vapor conversion factors:

8.58 $ft.^3$ = 1 lb.
0.535 m^3 = 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.
- Fade-, scratch-, and corrosion-resistant cashmere powder-baked finish.

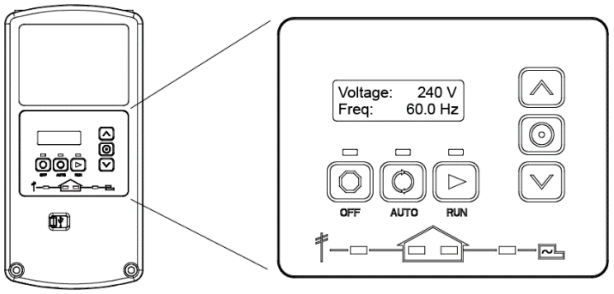
Sound Data

Model 24RCLA sound levels are 52 dB(A) during engine exercise and 60 dB(A) during normal operation.*

All sound levels are measured at 23 ft. (7 m) with no load.

* 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, Model RXT transfer switch, programmable interface module (PIM), and load management.

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 push buttons
  - 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 to connect to internet and be able to use Kohler's remote monitoring mobile app
- 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.

KOHLER. Generators

Discovery Energy, LLC
200 Twin Oaks Road, Kohler, WI 53044 USA
For the nearest sales and service outlet in the US and Canada, phone 1-800-544-2444
kohlergenerators.com

Additional RDC2 Controller Features

- Diagnostic messages
  - Displays diagnostic messages for the engine, generator, Model RXT transfer switch, programmable interface module (PIM), and load management device
  - 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
- cULus listed
- Electronic, isochronous governor
- 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 connection
- Integral vibration isolation
- Line circuit breaker
- NEC prime mover shutdown switch
- Oil drain extension
- Scannable QR code to operation and installation information
- RDC2 controller with built-in battery charger
- Remote monitoring and control of the generator and ATS system
- Premium five-year or 2000 hour limited warranty

Available Options

Starting Aids §

❑ Block Heater, 500W, 120V
❑ Oil Pan Heater, 150W, 120V

§ One block heater or oil pan heater is recommended for ambient temperatures below 0°C (32°F). At temperatures below -18°C (0°F), installation of both heaters is recommended. Single phase QS available with factory installed block heater.

Available Options, Continued

Controller Accessories

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

Electrical System

❑ Battery
❑ Battery Heater
❑ Wireless Radio Kit

Automatic Transfer Switches and Accessories

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

Miscellaneous

❑ Maintenance kit (includes air filter, oil, oil filter, and spark plugs)

Literature

❑ General Maintenance Literature Kit
❑ Overhaul Literature Kit
❑ Production Literature Kit

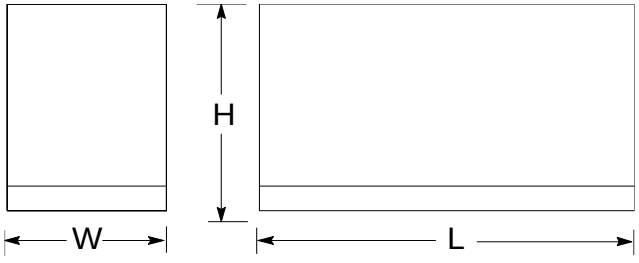
Warranty

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

Dimensions and Weights

Overall Size, L x W x H, mm (in.):	1880 x 836 x 1169 (74 x 32.9 x 46.0)
Shipping Weight, wet, kg (lb.):	572 (1260)

Weight includes generator set with engine fluids, sound enclosure, silencer, and packaging.



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

PROVIDED BY:

© 2026 Discovery Energy, LLC - All rights reserved.