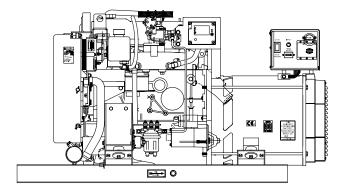
KOHLER POWER SYSTEMS

Gasoline





Generator Weights and Dimensions

Weight, kg (lbs.) Wet	340	(750)
Length, mm (in.)	1305	(51.37)
Width, mm (in.)	572	(22.52)
Height, mm (in.)	726	(28.58)
See the drawings on the last page for the detailed dimensions.		

Generator Ratings

Model Series	Voltage	Hz	25°C (77°F) Amps	25°C (77°F) kW/kVA
20C	120/240	60	83.3*	20/20
17.5CF	110/220	50	79.6*	17.5/17.5

^{*} Denotes amps per terminal.

RATINGS: Marine continuous ratings per ISO 3046, ISO 8528-1, and Kohler ISO rating guideline 2.14. Obtain technical information bulletin (TIB-101) on ratings guidelines for complete ratings definitions.

Availability is subject to change without notice. Kohler Co. reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever. Contact your local Kohler generator distributor for availability.

Marine Generator Set

Engine Features

- Gasoline powered
- Four cylinder
- Four cycle
- Heat exchanger
- Lifting eyes
- Fuel pump
- Closed cooling system

Generator Features

- · Remote connection availability
- Class F insulation
- 120-volt or 120/240-volt capability
- Voltage regulation of ±2%
- Frequency regulation of ±0.25%
- RFI suppression

Optional Accessories

- Ship-to-shore transfer switch
- Seawater strainer
- Siphon break

Application Data

Engine

Engine Specifications	60 Hz	50 Hz
Manufacturer	Ford	
Model	LRG	-425
Туре	4 Cycle	
Cylinders, number	4	1
Displacement, L (CID)	2.5 (153)
Bore and stroke, mm (in.)	96.01 (3.78) x 86.36 (3.40)	
Compression ratio	9.0:1	
Rated rpm	1800	1500
Max. power at rated rpm, HP	38	28
Cylinder block material	Special high-grade cast iron	
Cylinder head material	High-grade cast iron	
Piston rings	2 compression/1 oil control	
Crankshaft bearings, type	5-bearing precision-cast nodular iron	
Valve material Intake	Forged stee	
Exhaust	Stem-silchron finish hea w/tungste	ne #1 chrome ad-21-4N
Connecting rod material	Forged steel	
Governor, type	Electronic	

Engine Electrical

Engine Electrical System	60 Hz	50 Hz
Ignition	Electronic, distributorless	
Starter motor	Solenoid-actuated pinion	
Spark plugs	Resistor-type RFI suppression	
Battery voltage (DC)	12	2
Battery charging	50 amp	
Battery recommendation (min.)	630 CCA @	-18°C (0°F)

Fuel

Fuel System	60 Hz	50 Hz
Туре	Single venturi, downdraft carburetor	
Choke	Automatic, electric	
Fuel pump	Electric	
Fuel pump, max. lift, m (ft.)	0.9 (3.0)	

Fuel Consumption	60 Hz	50 Hz
Gasoline, Lph (gph) at % load		
100%	11.36 (3.00)	9.84 (2.60)
75%	10.22 (2.70)	8.33 (2.20)
50%	8.33 (2.20)	6.43 (1.70)
25%	5.68 (1.50)	4.54 (1.20)

Lubrication

Lubricating System	60 Hz	50 Hz
Туре	Pressure, eccentric bi-rotor	
Oil capacity with filter, L (qts.)	4.7 (5.0)

Cooling

Cooling System	60 Hz	50 Hz
L (qts.)	7.6 (8.0)	
Heat exchanger type	2.5 in. dia. x 3 pass cupro-nickel	
Seawater pump type	Belt driven, 10 blade impeller	
Heat rejected to cooling water at rated kW, wet exhaust Btu/min.	1360	1140
Engine water pump flow, Lpm (gpm)	64.3 (17)	53.0 (14)
Seawater pump flow, Lpm (gpm)	49.2 (13)	41.6 (11)

Operation Requirements

Air Requirements	60 Hz	50 Hz
Engine combustion air requirements m³/min. (cfm)	1.9 (68)	1.6 (56)
Engine/Generator cooling requirements m ³ /min. (cfm)	5.9 (210)	5.0 (175)

Engine Features

- Meets Coast Guard safety standards for electrical systems and gasoline fuel systems (33CFR183)
- One-side serviceability of fuel system, lubrication system, seawater pump, and air intake silencer/backfire flame arrestor
- · Low oil pressure cutout
- High water and high exhaust temperature cutouts
- Vibromounts
- Plastic belt guard
- Disposable oil filter
- Oil drain petcock with extension hose

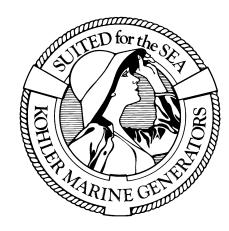
Controller Features

- Start/stop switch
- Rubber mounts to isolate vibration
- · Safety shutdowns:
 - Overheat
 - Low oil pressure
 - o Overspeed
- External 6-pin connector for remote panel harness
- Hourmeter for scheduling maintenance
- Voltage/frequency adjustable PowerBoost™ voltage regulator
- Starter interlock to prevent reengagement of starter whenever engine is running
- Plug/receptacle controller connections
- Terminal connections:
 - o Clearly identified
 - Corrosion resistant
 - o Eliminate the possibility of misconnection
- Quick disconnect 22-pin wiring harness

Application Data

Generator Features

- Brushless, rotating field design permits power to be obtained from stationary leads.
- Rotor and stator are vacuum impregnated and coated with high-bond epoxy varnish. Varnish helps prevent corrosion in high-humidity areas.
- · Rotors are dynamically balanced to minimize vibration.
- Copper windings ensure minimal heat buildup. Insulation meets NEMA standards for class F insulation.
- Directly connected to the engine, the generator has sealed precision ball bearings with a precision-machined steel sleeve in the end bracket (or end bearing tolerance ring) to prevent shaft misalignment and extend bearing life.
- Circuit breakers protect the generator from extreme overload.
- The generator is mounted on a drip-proof tray.
- The generator is equipped with a four-lead reconnectable stator.



Accessories

Siphon Break

Mandatory kit for generators installed below the waterline. Prevents the siphoning of flotation water into the engine.

Seawater Strainer

The seawater strainer with the clear viewing jar allows easy cleaning and maintenance of the strainer for a more efficient and longer-living generator.

Ship-to-Shore Switch

The Kohler ship-to-shore transfer switch allows immediate switching to the Kohler® generator set power or shore power, protecting the electrical system from the possibility of simultaneous connection to both power sources.

High-Lift Fuel Pump Kit

Provides additional fuel lift capabilities and improves operation in high-temperature applications.

Remote Start Panel

Allows starting/stopping from a location remote from the generator set. Supplied with a 4.6 m (15 ft.) connection harness. The overall mounting dimensions are 103 mm (4 1/16 in.) by 54 mm (2 1/8 in.) with a minimum mounting depth of 57 mm (2 1/4 in.).

Remote Start and Two-Meter Panel Kit

Allows starting/stopping from a location remote from the generator set. The illuminated gauges include an engine oil pressure gauge and water temperature gauge. The overall dimensions are 152 mm (6 in.) by 152 mm (6 in.) with a minimum mounting depth of 70 mm (2 3/4 in.). Requires remote connection/extension harness (PA-249334 or PA-249336 and Sender Kit).

PTO Kit

Easily install hydraulic pumps for bow thruster kits using the versatile Kohler® PTO adapter kit. The PTO adapter kit conveniently accommodates up to two hydraulic pumps for aftermarket bow or stern thruster kits.

Remote Start and Four-Meter Panel Kit

Allows starting/stopping from a location remote from the generator set. The illuminated meters/gauges include a DC voltmeter, engine oil pressure gauge, water temperature gauge, and an hourmeter that records total generator set operating hours. Overall dimensions are 229 mm (9 in.) by 152 mm (6 in.) with a minimum mounting depth of 102 mm (4 in.). Requires remote connection/extension harness (PA-249334 or PA-249336 and Sender Kit).

Sender Kit

Provides gauge senders for the remote start and two-meter panel kit and the remote start and four-meter panel kit. The gauge sender kit is required to make the oil pressure and water temperature gauges functional.

Remote Connection/Extension Harness

Provides additional wiring between all remote panels and the controller connector. One required for each remote start and meter panel kit. Extension limited to a total of four kits and 23 m (75 ft.).

12-Inch Remote Wiring Harness

This 0.3 m (1 ft.) wiring harness has a 6-pin connector on one end which is keyed to the controller box connector. The other end has pigtails for connection to a customer-supplied start switch, generator ON light, hourmeter, etc.

Sea Spares™ Maintenance Kit

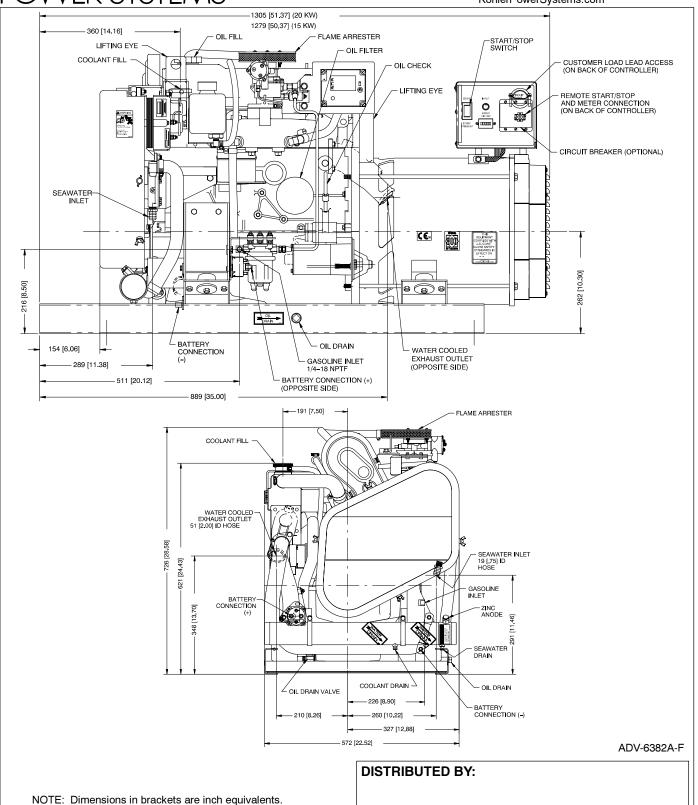
Kohler's Sea Spares Kit consists of a durable white utility box filled with necessary marine parts.

Line Circuit Breakers

Protects generator from extreme overload.

KOHLERPOWER SYSTEMS

KOHLER CO., Kohler, Wisconsin 53044 USA Phone 920-565-3381, Fax 920-459-1646 For the nearest sales and service outlet in the US and Canada, phone 1-800-544-2444 KohlerPowerSystems.com



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NOTE: This drawing is provided for reference only and is not intended for installation planning. Contact your local

distributor for more detailed information.