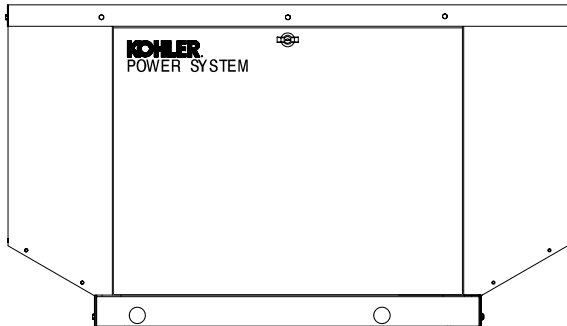


Models: 8.5/11RMY

KOHLER POWER SYSTEMS

Sound Shield LP Gas & Natural Gas



Standard Features

- Sound shield enclosure maintains neighborhood solitude.
 - Generator set operates below 69.1 dB(A)*.
 - Sound deadening foam is flame retardant per UL 94, class HF-1.
 - Enclosure houses an internal exhaust system with a USDA Forest Service-approved spark arrester.
 - Rodent proof construction.
- Kohler Co. provides one-source responsibility for the generating system and accessories.
- Generator set and components are prototype tested, factory built, and production tested.
- A one-year limited warranty covers all systems and components. Extended warranties are available.
- Emission Certifications (60 Hz Models):
 - The generator set meets Environmental Protection Agency (EPA) stationary unit requirements.
 - California CARB certification is available.
- Generator features:
 - Kohler's PowerBoost™ voltage regulation system provides instant response to load changes.
 - Skewed generator construction produces a smooth AC waveform.
- Other features:
 - Integral vibration isolation.
 - Electronic, isochronous governor provides precise frequency regulation.

*Maximum sound pad measurement at 23 ft. (7.0 m)

Generator Ratings

Model Series	Voltage	Phase	Hz	Standby Amps		Generator Model	Standby Ratings, kW/kVA	
				Nat. Gas	LP Gas		Nat. Gas	LP Gas
8.5RMY	120/240	1	60	29	35	2F4	7.0/7.0	8.5/8.5
8.5RMY	110/220	1	50	29	34	2F4	6.3/6.3	7.5/7.5
11RMY	120/240	1	60	40	46	2F4	9.5/9.5	11.0/11.0
11RMY	110/220	1	50	39	44	2F4	8.5/8.5	9.6/9.6

RATINGS: Standby ratings are continuous for the duration of any power outage. No overload capacity is specified at this rating. All single-phase units are rated at 1.0 power factor. 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 Co. generator distributor for availability. GENERAL GUIDELINES FOR DERATION: ALTITUDE: Derate 4% per 1000 ft. (305 m) elevation above 500 ft. (153 m). TEMPERATURE: Derate 1% per 10° F (5.5° C) temperature increase above 77° F (25° C).

Alternator Specifications

Specifications	PowerBoost™ Generator	
	1-Phase	
Manufacturer	Kohler	
Output reconnectable	120/240	
Type	2-Pole, Rotating Field	
Number of leads	4	
Voltage regulator	Solid State	
Insulation: NEMA MG1-1.66,		
Material	Class F	
Temperature rise	Class F	
Bearing: number, type	1, Sealed Ball	
Coupling	Direct	
Amortisseur windings	Full	
Voltage regulation, no load to full load	±2%	
One-step load acceptance	100% of Rating	
Peak motor starting kVA:		
2F4—8.5RMY	16	(60 Hz)
2F4—11RMY	20	(60 Hz)

- Compliance with NEMA, IEEE, and ANSI standards for temperature rise.
- Self-ventilation and drip-proof construction.
- Vacuum-impregnated windings with fungus-resistant epoxy varnish for dependability and long life.
- Superior voltage waveform and minimum harmonic distortion from skewed alternator construction.
- PowerBoost™ voltage regulator with ±2% no load to full load regulation.
- Rotating-field alternator with static exciter for excellent load response.
- Regulated battery-charging winding—15 amps (nominal).

Application Data

Engine

Engine Specifications	60 Hz	50 Hz
Manufacturer	Kohler	
Engine: model, type		
8.5RMY	CH20 4-Cycle	
11RMY	CH25 4-Cycle	
Cylinder arrangement	V-2	
Displacement, cu. in. (L)		
8.5RMY	38 (624)	
11RMY	44 (725)	
Bore and stroke, in. (mm)		
8.5RMY	3.03 (77) x 2.64 (67)	
11RMY	3.27 (83) x 2.64 (67)	
Compression ratio		
8.5RMY	8.5:1	
11RMY	9.0:1	
Piston speed, ft./min. (m/sec.)	1583 (8.0)	1319 (6.7)
Main bearings: number, type	2, Parent Material	
Rated rpm	3600	3000
Max. power at rated rpm, natural gas, HP (kW)		
8.5RMY	13.4 (10.0)	12.2 (9.1)
11RMY	16.3 (12.2)	14.5 (10.8)
Cylinder head material	Aluminum	
Valve material	Steel/Stellite®	
Piston type and material	Aluminum Alloy	
Crankshaft material	Heat Treated, Ductile Iron	
Governor: type, make/model	Electronic, Kohler	
Frequency regulation, no load to full load	Isochronous	
Frequency regulation, steady state	±0.5%	
Air cleaner type	Dry	

Exhaust

Exhaust System	60 Hz	50 Hz
Exhaust flow at rated kW, cfm (m ³ /min.)		
8.5RMY	115 (3.3)	96 (2.7)
11RMY	135 (3.8)	113 (3.2)
Exhaust temperature at rated kW, dry exhaust, °F (°C)	1400 (760)	
Maximum allowable back pressure, in. Hg (kPa)	2.2 (7.5)	

Engine Electrical

Engine Electrical System	60 Hz	50 Hz
Ignition system	Electronic	
Battery charging system:	Battery Charging Winding	
Ground (negative/positive)	Negative	
Volts (DC)	12	
Ampere rating	15	
Starter motor rated voltage (DC)	12	
Recommended battery cold cranking amps (CCA) rating for 0°F (-18°C)	400 min.	
Battery, quantity	1	
Battery voltage (DC)	12	
Rolling current at 32°F (0°C)	100 amps	

Fuel

Fuel System	60 Hz	50 Hz
Fuel type	Natural Gas or LP Gas	
Fuel supply inlet	1/2 NPT	
Fuel supply pressure oz./in. ² (in. H ₂ O)	4-6 (7-11)	

Lubrication

Lubricating System	60 Hz	50 Hz
Type	Full Pressure	
Oil capacity (with filter), qts. (L)	2.0 (1.9)	
Oil filter, quantity, type	1, Cartridge	
Oil cooler	Integral	

Application Data

Operation Requirements

Cooling Air Requirements	8.5RMY		11RMY	
	60 Hz	50 Hz	60 Hz	50 Hz
Cooling air, cfm (m ³ /min.)	950 (26.9)	790 (22.4)	950 (26.9)	790 (22.4)
Total inlet air requirement cfm (m ³ /min.)	980 (27.8)	820 (23.2)	990 (28.0)	825 (23.4)
Combustion air, cfm (m ³ /min.)	33.4 (0.94)	28.0 (0.8)	39.2 (1.1)	32.6 (0.9)

Fuel Consumption

Natural Gas, cfh (m³/hr.) at % load

100%	132 (3.7)	118 (3.3)	192 (5.4)	160 (4.5)
75%	113 (3.2)	101 (2.9)	154 (4.4)	129 (3.7)
50%	93 (2.6)	83 (2.3)	116 (3.3)	97 (2.7)
25%	77 (2.2)	69 (1.9)	78 (2.2)	65 (1.8)

LP Gas, cfh (m³/hr.) at % load

100%	72 (2.0)	61 (1.7)	99 (2.8)	82 (2.3)
75%	45 (1.3)	38 (1.1)	80 (2.3)	66 (1.9)
50%	36 (1.0)	31 (0.9)	60 (1.7)	49 (1.4)
25%	29 (0.8)	25 (0.7)	40 (1.1)	33 (0.9)

LP conversion factors:

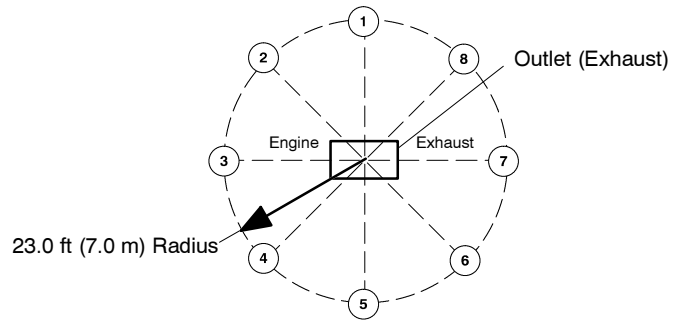
1 lb. = 8.58 cf

1 gal. = 36.39 cf

Minimum Gas Pipe Size Recommendation—in. NPT

Pipe Length ft. (m)	Natural Gas		LP Gas	
	8.5RMY	11RMY	8.5RMY	11RMY
Max. Btu/hr	132,000	199,000	180,000	248,000
25 (8)	3/4	3/4	1/2	3/4
50 (15)	3/4	1	3/4	1
100 (30)	1	1	1	1
150 (46)	1	1 1/4	1	1
200 (61)	1	1 1/4	1	1 1/4

Acoustic Data



Microphone position: 1-8 as shown

Microphone distance: 23 feet (7.0 meters)

Microphone height: 3.28 feet (1.0 meter)

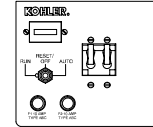
Data measured in: dBA, Sound Pressure
(Re: 20 μ Pa)

NOTE: Test performed with the generator set
operating at full load with sound shield.

Standard Acoustic Test Pad Data—dBA

	Sound Data Measurement Positions								Avg.
	1	2	3	4	5	6	7	8	
60 Hz	68.0	68.6	67.7	67.3	68.2	68.3	68.8	69.1	68.25

Controller



Standard Controller Features

- Type: relay
- Power source: 12-volt DC with fuse protection
- Running time hour meter
- Switches and controls:
 - Master control switch: run/reset-off/auto (engine start)
 - Local/remote two-wire start control
- Faults with shutdown:
 - High engine temperature
 - Low oil pressure
 - Overcrank safety
 - Overspeed
- Line circuit breaker: 50 amp

Standard Features and Accessories

Standard Features

- Battery Cables
- Battery Holder
- Flexible Fuel Line at Engine
- Fuel Solenoid Valve and Secondary Regulator
- Line Circuit Breaker
- Oil Drain Extension with Shutoff Valve
- One-Year Limited Warranty
- Rodent-Proof Construction
- Silencer—Critical
- Sound Shield Enclosure
- USDA Forest Service-Approved Spark Arrester

Miscellaneous Accessories

<input type="checkbox"/>	_____
<input type="checkbox"/>	_____
<input type="checkbox"/>	_____
<input type="checkbox"/>	_____
<input type="checkbox"/>	_____
<input type="checkbox"/>	_____
<input type="checkbox"/>	_____
<input type="checkbox"/>	_____
<input type="checkbox"/>	_____
<input type="checkbox"/>	_____
<input type="checkbox"/>	_____
<input type="checkbox"/>	_____

Accessories

Fuel System

- Emission Certifications, CARB or EPA
- Gas Strainer

Electrical System

- Battery
- Battery Chargers
- Battery Heater

Engine and Generator

- CSA Certification

Maintenance

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

Controller

- Run Relay Kit
- Common Fault Relay Kit

Transfer Switch

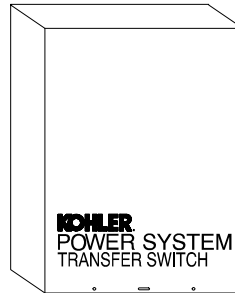
- Kohler Automatic Transfer Switch

Warranty

- Two-Year Warranty

Automatic Transfer Switch (optional)

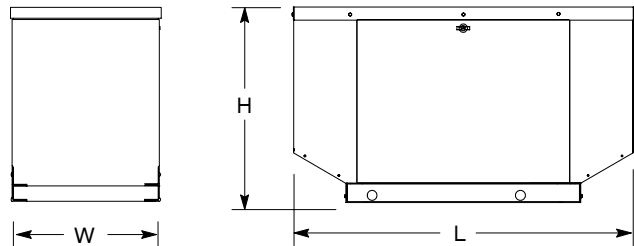
Kohler G120 Automatic Transfer Switch



- 100 and 200 ampere available
- 240 Volt rated, 50 or 60 Hz.
- Outdoor enclosure—NEMA 3R
- UL 1008 listed and CSA certified
- User-enabled generator set exerciser is standard
- Solid state electronics
- Dimensions (H x W x D)—24" x 18" x 11 (610 mm x 457 mm x 279 mm)
- Weighs less than 50 lbs. (22.7 kg)
- See G120 specification sheet for more detailed information

WEIGHTS AND DIMENSIONS

Overall Size, L x W x H, in. (mm):	52 x 26 x 30 (1320 x 660 x 762)
Weight lb. (kg):	400 (181)
Shipping weight lb. (kg):	550 (249)



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

DISTRIBUTED BY: