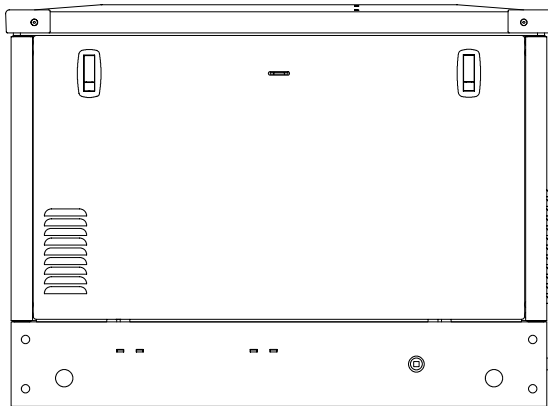


Model: **COM-6**

KOHLER POWER SYSTEMS

Natural or LP Gas

ISO 9001
KOHLER
GENERATORS
INTERNATIONALLY REGISTERED



Standard Features

- CE approved
- UL 2200 listed
- NEC®, NFPA®, NEMA, and USFS standard compliant
- Control system designed to UL 1950 isolation standards
- Sound-attenuating cabinet
- Critical exhaust silencer with spark arrestor
- One-side serviceability
- Generator features:
 - Brushless three-phase PMG alternator
 - Voltage regulation $\pm 2\%$
- Other features:
 - Kohler CH20 air-cooled engine (OHV V-Twin design)
 - Electronic ignition
 - Electronic governor
 - Intelligent fuel and emissions control
 - Microprocessor controller
 - Local LED status annunciation
 - Remote communication and system control
 - 15-amp engine-driven battery charging alternator
 - 2-amp float-type battery charger
 - Running time hourmeter
 - Zero-maintenance sealed generator set starting battery, optional

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Generator Ratings

Voltage	Amps	Rated HP	Rated RPM	kW Natural Gas or LP
52	115	20	1800-3600	6.0
26	229	20	1800-3600	6.0

Output kW ratings are at 2000 ft. (610 m) and 122°F (50°C). Engine horsepower to SAE J1349, derates apply.

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Application Data

Engine

Engine Specifications	
Manufacturer	Kohler
Engine: model, type	CH-20, 4-cycle
Cylinder arrangement	V-Twin
Displacement, cu. in. (L)	38 (0.624)
Bore and stroke, in. (mm)	3.03 x 2.64 (77 x 676)
Compression ratio	8.5:1
Main bearings: quantity, type	2, Replaceable Sleeve
Rated rpm	3600
Max. power at rated rpm, HP (kW), SAE J1349, derates apply	20 (15)
Cylinder head material	Aluminum
Piston: type, material	Permanent Mold Aluminum
Cylinder block material	Aluminum/Cast Iron Liners
Valve material	Forged Steel/Stellite
Governor type	Electronic
Frequency regulation, steady state	±0.5%
Air cleaner type	Dry

Lubrication

Lubricating System	
Type	Full Pressure
Oil pan capacity, qt. (L), including filter and cooler	2.0 (1.9)
Oil filter type	Spin-On
Oil cooler type	Air-Cooled

Engine Electrical

Engine Electrical System	
Ignition system	Electronic
Battery charging alternator:	
Ground (negative/positive)	Negative
Volts (DC)	12
Amps (DC)	15
Starter motor rated voltage (DC)	12
Battery, recommended cold cranking amps (CCA):	
Qty., minimum rating for 0°F	1, 500
Battery voltage (DC)	12

Exhaust

Exhaust System	
Silencer type	Critical
Spark arrestor	USFS Approved

Fuel

Fuel System	
Fuel type	Natural Gas or LP Gas
Fuel supply inlet, NPT, in. (mm)	0.5 (12.7)
Fuel supply pressure, oz./in. ² (in. H ₂ O) (kPa)	4-6 (7-11) (1.7-2.7)

Operation Requirements

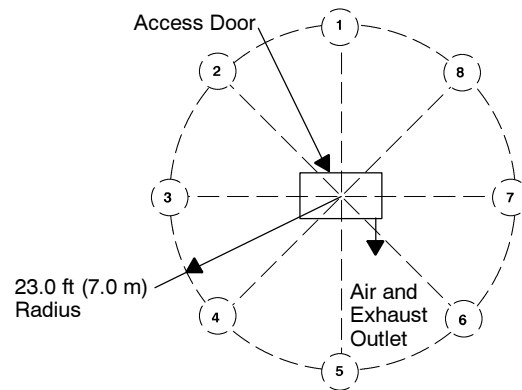
Fuel Consumption, cfh (m ³ /hr.) at % load			
Load, %	Natural Gas		LP Gas
100%	125	(3.5)	43 (1.2)
75%	95	(2.7)	34 (1.0)
50%	70	(2.0)	26 (0.7)
25%	55	(1.6)	20 (0.6)

Acoustic System

Acoustic System	
Full-load measured noise, average	67.7 dBA @ 7 m (23.0 ft.)
Acoustic signature	Low Tone

Acoustic Data

Acoustic Data Tests



Microphone position: 1-8 as shown
 Microphone distance: 23 feet (7.0 meters) (from center of enclosure)
 Microphone height: 3.28 feet (1.0 meter)
 Data measured in: dBA, Sound Pressure (Re: 20µPa)

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

Standard Acoustic Test Pad Data—dBA

Sound Data Measurement Positions										
1	2	3	4	5	6	7	8	Avg	Max	Min
66.9	66.6	68.4	70.7	74.5	68.9	63.1	62.2	67.7	74.5	62.2

Alternator Features

- Compliance with NEMA, IEEE, and ANSI standards for temperature rise.
- Self-ventilated, dripproof construction.
- Vacuum-impregnated windings with fungus-resistant epoxy varnish for dependability and long life.
- Brushless, three-phase PMG alternator with neodymium/iron/boron permanent-magnet excitation.

Alternator Specifications

Specifications	Generator
Manufacturer	Kohler
Type	24-Pole, PMG, Brushless
Leads: quantity	3
Voltage regulator	Microprocessor
Bearing: quantity, type	1, Replaceable Ball
Coupling	Direct
Voltage regulation, no-load to full-load	±2%
One-step load acceptance	100% of Rating
High frequency DC ripple	Less than 0.3% Peak-to-Peak

Optional Equipment

- Cabinet intrusion alarm.
- Cabinet interface harness for alarms and remote control.
- Skid base riser, 6 in. (152 mm)
- Extended warranties.

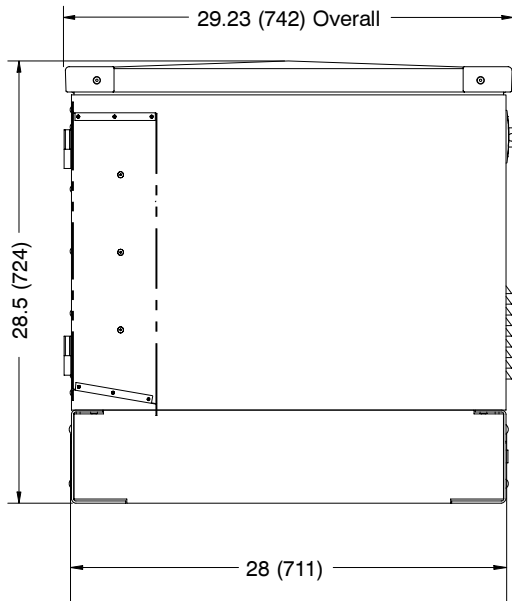
Controller

Microprocessor Controller

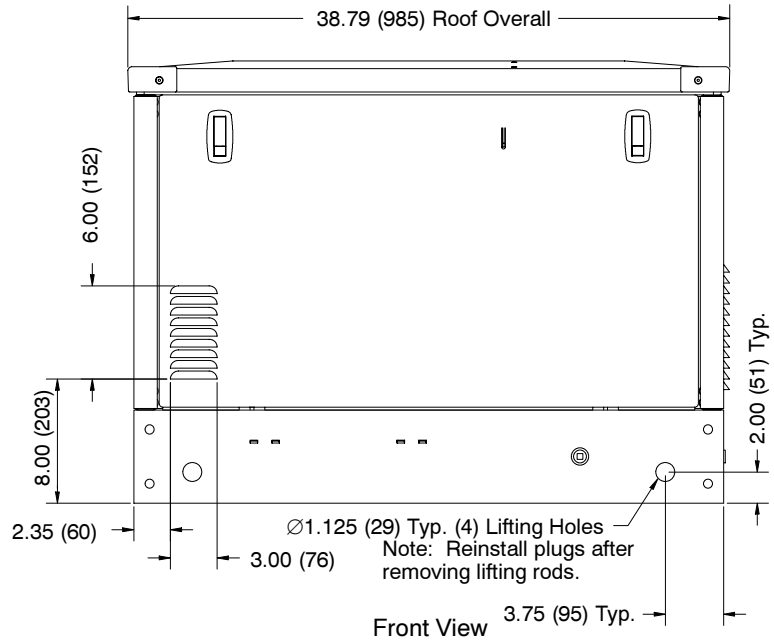
Standard Controller Features

- Type: microprocessor
- Power source, with circuit protection: 12-volt DC
- Components:
 - Voltage test jacks
 - Hourmeter
 - System fuses
 - Main line circuit breaker
- Interfacing:
 - Internal DC bus connection
 - 15-pin remote communication connector
 - Twist-lock engine interface connector
 - 120 VAC input connector
- Local annunciator status lights:
 - System ready
 - Generator running
 - High temperature
 - Low oil pressure
 - Battery charger failure
 - Low fuel pressure
 - Overspeed
 - Overcrank
 - Overvoltage
- Remote communication alarm outputs:
 - Generator running
 - Generator malfunction
 - Low fuel pressure
 - Minor malfunction
 - Circuit breaker open
 - Cabinet intrusion (optional)
- Remote control inputs:
 - Time delay start (AC power fail)
 - Immediate start
 - Immediate stop
 - Fault reset
- Switches:
 - Local control master switch:
RUN/OFF-RESET/AUTO
 - Lamp test
 - Circuit breaker
- Operational features:
 - Time delay engine start (TDES)
 - Immediate start (remote)
 - Time delay engine cooldown
 - Stop
 - Voltage sensing
 - Remote fault reset

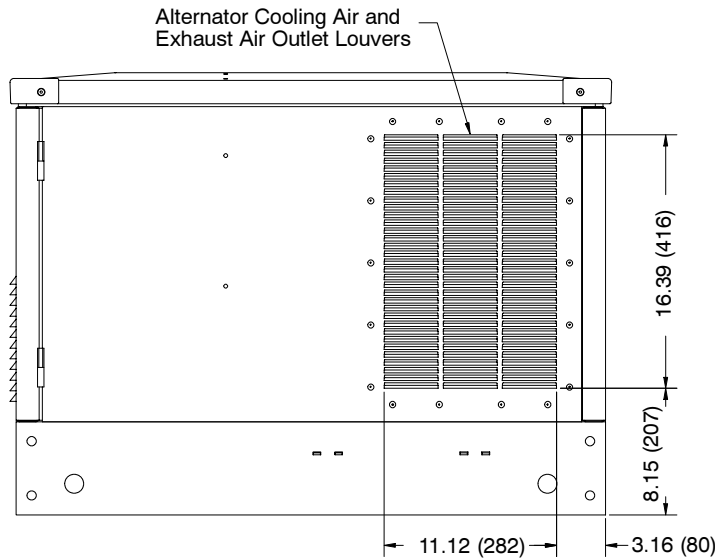
28.5 (724)



End View



Front View



Back View

Dimensions: in. (mm)

ADV-6290B-A

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

WEIGHTS AND DIMENSIONS

Overall Size, H x W x D, in (mm): 28.50 x 38.79 x 29.23
 (724 x 985 x 742)
 Weight, lb. (kg): 425 (192.8)

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