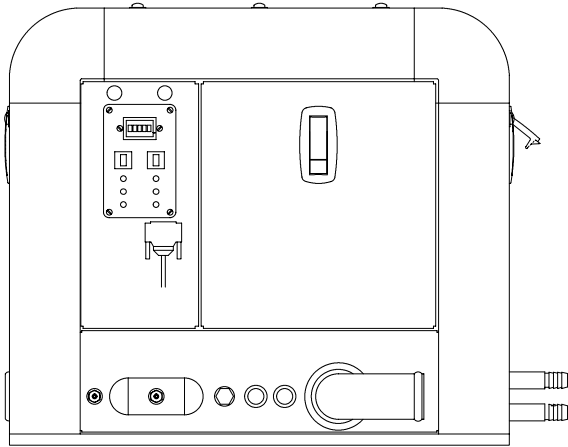


Model: 4EOZ 60 Hz
3.5EFOZ 50 Hz

KOHLER POWER SYSTEMS

1-Phase Diesel

ISO 9001
KOHLER
POWER SYSTEMS
 NATIONALLY REGISTERED



Marine Generator Set

Engine Features

- Diesel power
- EPA and CE certification
- Single cylinder
- Four cycle
- Direct water cooled system
- Lifting eyes
- Fuel lift pump

Generator Features

- Remote start connection availability
- Class H insulation
- Multivoltage adjustability
- 60 or 50 Hz capability
- Voltage regulation of $\pm 5\%$
- Frequency regulation of $\pm 3\%$
- Sound shield
- Radio suppression

Optional Accessories

- Remote start and meter panel kit
- Siphon break

Generator Weights and Dimensions

	Without Sound Shield	With Sound Shield
Weight, kg (lb.)		
Wet	N/A	96.2 (212.1)
Dry	N/A	95.0 (209.5)
Length, mm (in.)	N/A	560 (22.05)
Width, mm (in.)	N/A	390 (15.35)
Height, mm (in.)	N/A	490 (19.29)

See the drawings on the last page for detailed dimensions.

Generator Ratings

Model Series	Voltage	Hz	25° C (77° F)	25° C (77° F)	Ph
			Amps	kW/kVA	
4EOZ	120	60	29.2	3.5/3.5	1
3.5EFOZ	220	50	13.9	3.2/3.2	1

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.

Application Data

Engine

Engine Specifications	60 Hz	50 Hz
Manufacturer	Farymann Diesel	
Model	18 W	
Type	4 cycle	
Cylinder, quantity	1	
Displacement, L (cu. in.)	0.29 (17.7)	
Bore and stroke, mm (in.)	82 x 55 (3.23 x 2.17)	
Compression ratio	20:1	
Combustion system	Direct injection	
Rated rpm	3600	3000
Max. power at rated rpm, HP	7.0	6.2
Cylinder block material	Cast iron	
Cylinder head material	Cast iron	
Piston rings: quantity, type	2 compression/1 oil	
Crankshaft material	Stamped forging	
Connecting rod material	Aluminum	
Governor, type	Centrifugal, mechanical	

Engine Electrical

Engine Electrical System	60 Hz	50 Hz
Battery, voltage	12 volt	
Battery, charging	15-amp alternator	
Battery, minimum recommendation	500 CCA, 100 amp hr.	
Starter motor	12 volt	

Cooling

Cooling System	60 Hz	50 Hz
Seawater pump type	Coaxial alternator driven	
Heat rejected to cooling water at rated kW, wet exhaust, kW (Btu/min.)	6.1 (348)	5.8 (332)
Seawater pump flow, Lpm (gpm)	11.2 (2.9)	10.9 (2.9)

Fuel

Fuel System	60 Hz	50 Hz
Fuel shutoff solenoid	Electric	
Fuel pump	Electric, solenoid type	
Fuel pump priming	Electric	
Maximum recommended fuel lift, m (ft.)	1.2 (4.0)	

Lubrication

Lubricating System	60 Hz	50 Hz
Oil pan capacity with filter, L (qt.)	1.25 (1.32)	
Type	Pressure, trochoid pump	

Operation Requirements

Air Requirements	60 Hz	50 Hz
Engine combustion air requirements, L/min. (cfm)	436 (15.4)	363 (12.8)

Fuel Consumption	60 Hz	50 Hz
Diesel, Lph (gph) at % load		
100%	1.70 (0.45)	1.60 (0.42)
75%	1.36 (0.36)	1.28 (0.34)
50%	1.02 (0.27)	0.96 (0.25)
25%	0.64 (0.17)	0.60 (0.16)

Note: The fuel consumption of the 60 Hz model is based on 4EOZ, and the fuel consumption of the 50 Hz model is based on 3.5EFOZ.

Engine Features

- One-side serviceability of fuel system, lubrication system, and seawater pump
- Low oil pressure cutout
- High exhaust and high cylinder head temperature cutouts
- Oil drain hose and oil cooler
- Direct water cooled

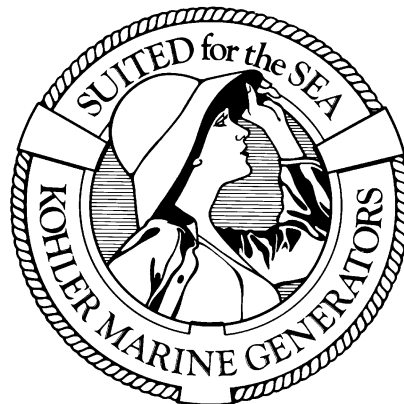
Controller Features

- Rubber-mounted to isolate vibration
- Safety shutdowns:
 - High exhaust temperature
 - High cylinder head temperature
 - Low oil pressure
- External 20-pin connector for the remote panel harness
- 3-wire connector and 304.8 mm (12 in.) pigtail for the remote start/stop switch
- Hourmeter for scheduling maintenance
- On/off and start buttons
- Starter interlock to prevent reengagement of starter whenever engine is running
- Plug/receptacle controller connections
- Terminal connections:
 - Clearly identified
 - Corrosion resistant
 - Possibility of misconnection eliminated
- Quick disconnect equipped on 9-pin wiring harness on the unit's control panel
- Capacitor excited

Application Data

Generator Features

- Brushless, rotating field design permits power to be obtained from stationary leads.
- Rotor and stator are coated with a 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 H insulation.
- Direct connected to the engine, the generator has sealed precision ball bearings with a precision-machined steel sleeve in the end bracket to prevent shaft misalignment and extend bearing life.
- The generator is mounted on a dripproof tray.
- The generator is equipped with a four-lead reconnectable stator.



Accessories

Siphon Break

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

Seawater Strainer

Equipped with a clear viewing jar allowing for easy cleaning and maintenance of the strainer for a more efficient and longer-lived generator.

Ship-to-Shore Switch

Allows immediate switching to Kohler® generator set power or shore power protecting the electrical system from the possibility of simultaneous connection of both power sources.

Remote Start Panel

Allows starting/stopping from a remote location. Supplied with a 101 mm (4 in.) connection harness.

Remote Connection/Extension Harness

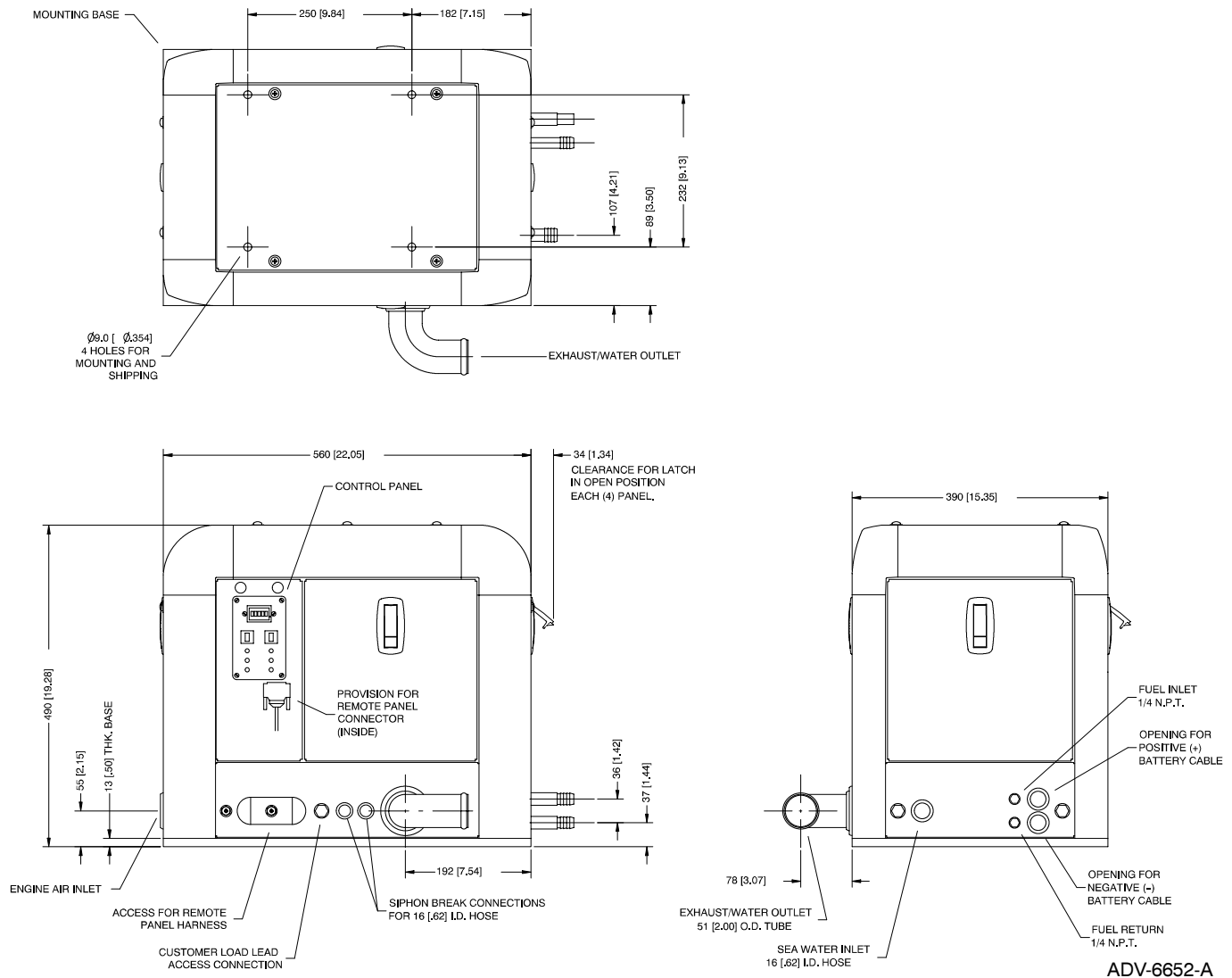
Provides additional wiring between the remote panel and the controller connector. One required for the remote start and meter panel kit. Extension limited to a total of two kits. Available in 4.6 m (15 ft.) and 7.6 m (25 ft.) lengths.

12-Inch Remote Wiring Harness

Equipped with a 3-pin connector on one end that is keyed to a controller box connector. Equipped on the other end with pigtails for connection to a customer-supplied start switch.

KOHLER[®] POWER SYSTEMS

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NOTE: Dimensions in [] are inch equivalents.

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

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