



STANDARD EQUIPMENT

Air Inlet System

Air cleaner — single element with service indicator
Optional air inlet adapter and rain cap —
recommended for weather protection

Control System

ADEM A4
Class 1, Division 2, Group C & D and Zone 2

Cooling System

Jacket water thermostats and housing — full open
temperature 98°C (208°F)
Jacket water pump — gear driven, centrifugal,
non-self-priming
Aftercooler water pump — gear driven, centrifugal,
non-self-priming
Aftercooler core — for treated water and sea air
atmosphere

Exhaust System

Exhaust manifolds — watercooled
Exhaust elbow — dry 203 mm (8 in)

Flywheels & Flywheel Housings

Flywheel, SAE No. 0
Flywheel housing, SAE No. 0
SAE standard rotation

Fuel System

Gas pressure regulator
Natural gas carburetor

Lube System

Crankcase breather — top mounted
Oil cooler
Oil filter — RH
Oil filler in valve cover, dipstick — RH

Protection System

ADEM A4 protection
The following include alarm and shutdown:
- inlet manifold air temperature
- inlet manifold air pressure
- oil pressure
- oil temperature
- coolant temperature
- engine speed (overspeed)
- battery voltage
The following is display only
- service hours

General

Paint, Caterpillar yellow
Crankshaft vibration damper and drive pulleys
Lifting eyes
Cylinder block inspection covers

OPTIONAL EQUIPMENT

Charging Alternator

24V, 60A CSA alternator

Exhaust System

Exhaust flex fitting
Exhaust elbow
Exhaust flange — ANSI

Instrumentation

Operator interface panel
Operator interface panel enclosure
15', 20', 50' interconnect harness

Starting System

Air pressure regulator
Air start silencer
Vane starter
Electric starter
Turbine starter

Fuel System

Fuel filter

Air Inlet System

Precleaner
Rain cap

**TECHNICAL DATA****CG137-8 Gas Petroleum Engine — 1800 rpm**

		DM9293-00
Engine Power @ 100% Load	bkW (bhp)	298 (400)
Engine Speed	rpm	1800
Max Altitude @ Rated Torque and 38°C (100°F)	m (ft)	1524 (5000)
Speed Turndown @ Max Altitude, Rated Torque, and 38°C (100°F)	%	18
Aftercooler Temperature		
JW Temperature	°C (°F)	99 (210)
SCAC Temperature	°C (°F)	54 (130)
Compression Ratio		8.3:1
Emissions (NTE)*		
NOx	g/bkW-hr (g/bhp-hr)	4893 (11.78)
CO	g/bkW-hr (g/bhp-hr)	4893 (11.78)
VOC**	g/bkW-hr (g/bhp-hr)	101 (0.22)
Fuel Consumption*** @ 100% Load	MJ/bkW-hr (Btu/bhp-hr)	10.51 (7431)
Heat Balance		
Heat Rejection to Jacket Water JW & OC	bkW (Btu/min)	295 (19,070)
Heat Rejection to Aftercooler @ 100% Load	bkW (Btu/min)	17 (1005)
Heat Rejection to Exhaust @ 100% Load	bkW (Btu/min)	185 (10,492)
Heat Rejection to Atmosphere @ 100% Load	bkW (Btu/min)	35 (1980)
Intake System		
Air Inlet Flow Rate @ 100% Load	N•m ³ /min (scfm)	2.77 (531)
Gas Pressure	kPag (psig)	10-34 (1.5-5.0)

*at 100% load and speed, listed as not to exceed

**Volatile organic compounds as defined in U.S. EPA 40 CFR 60, subpart JJJ

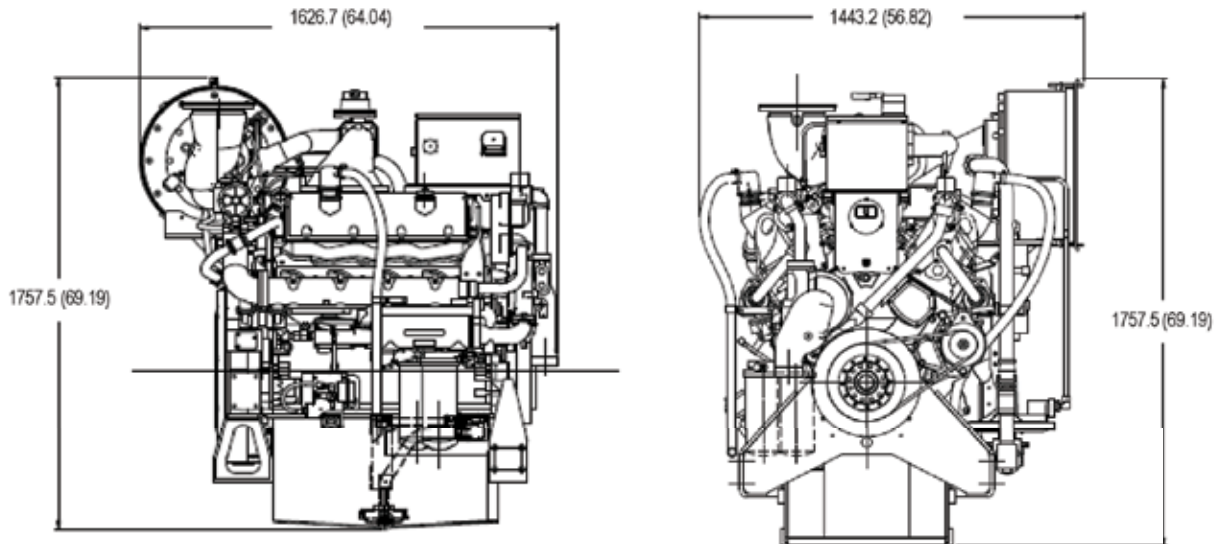
***ISO 3046/1



CG137-8 GAS PETROLEUM ENGINE

298 bkW (400 bhp)

GAS PETROLEUM ENGINE



Note: Dimensions are in mm (inches).

DIMENSIONS		
Length	1626.7 mm	64.04 in
Width	1443.2 mm	56.82 in
Height	1757.5 mm	69.19 in

RATING DEFINITIONS AND CONDITIONS

Engine performance is obtained in accordance with SAE J1995, ISO3046/1, BS5514/1, and DIN6271/1 standards.

Transient response data is acquired from an engine/generator combination at normal operating temperature and in accordance with ISO3046/1 standard ambient conditions. Also in accordance with SAE J1995, BS5514/1, and DIN6271/1 standard reference conditions.

Conditions: Power for gas engines is based on fuel having an LHV of 33.74 kJ/L (905 Btu/cu ft) at 101 kPa (29.91 in Hg) and 15°C (59°F). Fuel rate is based on a cubic meter at 100 kPa (29.61 in Hg) and 15.6°C (60.1°F). Air flow is based on a cubic foot at 100 kPa (29.61 in Hg) and 25°C (77°F). Exhaust flow is based on a cubic foot at 100 kPa (29.61 in Hg) and stack temperature.

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