

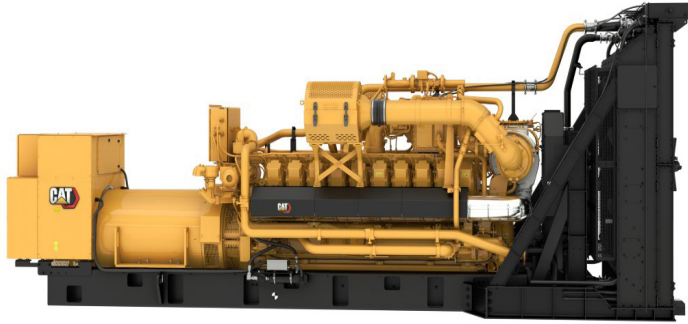


G3520

Gas Generator Sets, Oil & Gas

Continuous 60Hz ekW

U.S. EPA Large S.I. Tier 2 - Pending



Actual configuration may vary from displayed imaged.

FEATURES AND BENEFITS

Cat® Natural Gas Engine

- Application Submitted for U.S. EPA Large S.I. Tier 2* Certification, Currently Under EPA Review.**
- Robust 20 cylinder high speed block design provides prolonged life and lower owning and operating costs.
- Designed for maximum performance on low pressure gaseous fuel supply.

Generator Set Package

- Conforms to ISO 8528-5 G2 load acceptance criteria.
- Reliability verified through torsional vibration, fuel consumption, oil consumption, transient performance, and endurance testing.

Generators

- Superior motor starting capability minimizes need for oversizing generator.
- Designed to match performance and output characteristics of Cat engines.

Cooling System

- Operational radiator available to operate in ambient temperatures up to 43°C (110°F).
- Package tested to ensure proper cooling of complete generator set.

EMCP 4 Control Panels

- User-friendly interface and navigation.
- Scalable system to meet a wide range of installation requirements.
- Expansion modules and site specific programming for specific customer requirements.

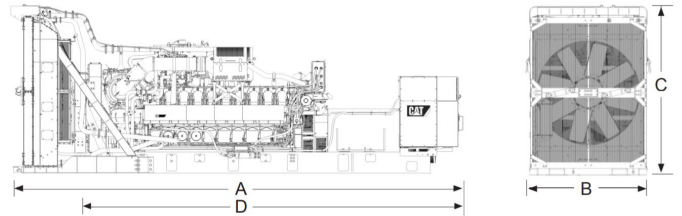
*Not for sale in California.

** All specifications listed are subject to change, pending final U.S. EPA Specification.

SPECIFICATIONS

Bore.....	170 mm (6.7 in)
Stroke.....	215 mm (8.5 in)
Displacement.....	97.6 L (5956 cu. in)
Compression Ratio.....	11.5:1
Aspiration.....	Turbocharged
Fuel System.....	Electronic Fuel Control Valve
Governor and Protection.....	Electronic (ADEM™4)

DIMENSIONS



Dimension A	8534 mm	336 in
Dimension B	2386 mm	94 in
Dimension C	3230 mm	128 in
Dimension D	6736 mm	266 in
Dry Weight	22,000 kg	48,501 lb

Note: Do not use for installation design. See general dimension drawings for detail. Dimensions are dependent on generator and any options selected.

Full listing of equipment (standard and optional), along with additional features and benefits can be found at www.cat.com/oilandgas or through your local dealer.

TECHNICAL DATA

Performance without Radiator	
Performance Number	EM5838
Performance	Continuous
Frequency	60 Hz
Genset power rating @ 0.8 power factor - ekW	2500
Emissions	U.S. EPA Large S.I. Tier 2
Fuel Consumption	MJ/ekW-hr (Btu/ekW-hr)
100% load	9.33 (8847)
75% load	9.50 (9010)
50% load	9.95 (9432)
Cooling System (Optional Factory Radiator)	°C (°F)
Auxiliary Circuit Temperature (maximum inlet)	54 (130)
Jacket Water Temperature (maximum outlet)	99 (210)
Inlet Air	Nm³/bKW-hr (ft³/min)
Combustion Air Inlet Flow Rate	4.39 (7628)
Altitude Capability	m (ft)
At 25°C (77°F) ambient, above sea level	1870 (6135)
Exhaust System	
Exhaust Temperature - engine outlet - °C (°F)	456 (852)
Exhaust Gas Flow - Nm ³ /bKW-hr (ft ³ /min)	4.65 (20028)
Exhaust Gas Mass Flow - kg/bKW-hr (lb/hr)	5.86 (34980)
Heat Rejection	kW (Btu/min)
Heat Rejection to Jacket Water Circuit (JW+AC1+OC)	1355 (77098)
Heat Rejection to Jacket Water	737 (41920)
Heat Rejection to Exhaust (LHV to 120°C/258°F)	1654 (94057)
Heat Rejection to Auxiliary Circuit - kW	316 (17990)
Heat Rejection to Atmosphere from Engine and Generator	272 (15464)

Rating Definitions and Conditions

Continuous Power Rating Output available with non-varying load for an unlimited time. Average power output is 70=100% of the continuous power rating. Typical peak demand is 100% of continuous rated ekW for 100% of operating hours.

Fuel Rates

1. For transient response, ambient, and altitude capabilities, consult your local Cat dealer.

2. Fuel pressure range specified is to the engine fuel control valve. Additional fuel train components may be required and should be considered in pressure and flow calculations.