

G3512

1000 ekW/ 1250 kVA/ 60 Hz/ 1800 rpm/ 208-4160 V/ 0.8 Power Factor

Rating Type: STANDBY

**Emissions: U.S. (EXCL CALIF) EPA S.I. STATIONARY
 NON-EMERGENCY Emission Standards**

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Image shown may not reflect actual configuration

Metric

English

Generator Set Specifications		
Maximum Rating @ 0.80 pf	1250 kVA	1000 ekW
Frequency	60 Hz	
Engine Speed (rpm)	1800 RPM	
Fuel	NATURAL GAS	
Emission Standards	U.S. (EXCL CALIF) EPA S.I. STATIONARY NON-EMERGENCY Emission Standards	
Performance Number	EM4565-02	
Altitude Capability at 25°C (77°F) ambient, above sea level	1928 m	6325 ft

Engine Specifications		
Engine Model	G3512	
Compression Ratio	9.70	
Aspiration	TA	
Governor Type	ADEM4 W/ IM	
Bore	170 mm	7 in
Displacement	52 L	3158 in ³
Stroke	190 mm	8 in
Aftercooler Temperature	54 °C	130 °F
Jacket Water Outlet	99 °C	210 °F

Package Dimensions*		
Length	6003 mm	236 in
Width	2286 mm	90 in
Height	2516 mm	99 in



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Package Fuel Consumption (ISO 3046/1)		
100% Load with Fan	10.29 MJ/ekw-hr	9757 Btu/ekw-hr
75% Load with Fan	10.78 MJ/ekw-hr	10225 Btu/ekw-hr
50% Load with Fan	11.84 MJ/ekw-hr	11227 Btu/ekw-hr

Exhaust System		
Combustion Air Flow (0° C, 101.3 kPa) / (77° F, 14.7 psia)	4.37 Nm ³ /bkW-hr	3071 ft ³ /min
Exhaust temperature - engine outlet	512.00 °C	954 °F
Exhaust gas flow (@engine outlet temp, 14.5psia)	4.65 Nm ³ /bkW-hr	8721 ft ³ /min

Heat Rejection		
Jacket Water Circuit (JW + OC + 1AC)	611 kW	34726 Btu/min
Heat rejection to jacket water (JW)	423 kW	24072 Btu/min
Heat rejection to atmosphere (Includes Generator)	153 kW	8705 Btu/min
Heat rejection to exhaust (LHV to 120°C / 248°F)	787 kW	44757 Btu/min

DEFINITIONS AND CONDITIONS

1. For ambient and altitude capabilities consult your Cat dealer.
2. Engine rating obtained and presented in accordance with ISO 3046/1. (Standard reference conditions of 77°F, 29.60 in Hg barometric pressure.) No overload permitted at rating shown.
3. Ratings are based on a natural gas fuel with a methane number with a LHV of 905 Btu/scf.
4. Gaseous emissions data measurements are consistent with those described in EPA 40 CFR PART 60 SUBPART JJJJ and ISO 8178 for measuring VOC, CO, and NOx.
5. Tolerance: Exhaust stack temperature +/- 8%, Inlet airflow rate +/- 5%, Exhaust flow +/- 6% Fuel rate +/- 5%, Heat rejection +/- 5%, Exhaust heat rejection +/- 10%

APPLICABLE CODES AND STANDARDS:

AS1359, CSA C22.2 No100-04, UL142,UL489, UL869, UL2200, NFPA37, NFPA70, NFPA99, NFPA110, IEC60034-1, ISO3046, ISO8528, NEMA MG1-22,NEMA MG1-33, 2006/95/EC, 2006/42/EC, 2004/108/EC.

Note: Codes may not be available in all model configurations. Please consult your local Cat Dealer representative for availability.