



G3520

2000 ekW/ 2500 kVA/ 60 Hz/ 1800 rpm/ 440-13800 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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 13800 V/ 0.8 Power Factor

Image shown may not reflect actual configuration

Metric

English

Generator Set Specifications		
Maximum Rating @ 0.80 pf	2500 kVA	2000 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	EM4305-03	
Altitude Capability at 25°C (77°F) ambient, above sea level	2690 m	8825 ft

Engine Specifications		
Engine Model	G3520	
Compression Ratio	11.50	
Aspiration	TA	
Governor Type	ADEM4 W/ IM	
Bore	170 mm	7 in
Displacement	98 L	5956 in ³
Stroke	215 mm	9 in
Aftercooler Temperature	54 °C	130 °F
Jacket Water Outlet	99 °C	210 °F

Package Dimensions*		
Length	8660 mm	341 in
Width	2386 mm	94 in
Height	3230 mm	127 in



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Package Fuel Consumption (ISO 3046/1)

100% Load with Fan	9.61 MJ/ekw-hr	9116 Btu/ekw-hr
75% Load with Fan	9.98 MJ/ekw-hr	9465 Btu/ekw-hr
50% Load with Fan	10.92 MJ/ekw-hr	10357 Btu/ekw-hr

Exhaust System

Combustion Air Flow (0° C, 101.3 kPa) / (77° F, 14.7 psia)	4.32 Nm3/bkW-hr	6110 ft3/min
Exhaust temperature - engine outlet	472.00 °C	881 °F
Exhaust gas flow (@engine outlet temp, 14.5psia)	4.58 Nm3/bkW-hr	16407 ft3/min

Heat Rejection

Jacket Water Circuit (JW + OC + 1AC)	1035 kW	58839 Btu/min
Heat rejection to jacket water (JW)	602 kW	34212 Btu/min
Heat rejection to atmosphere (Includes Generator)	265 kW	15092 Btu/min
Heat rejection to exhaust (LHV to 120°C / 248°F)	1392 kW	79154 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.