

G3520C

1600 ekW/ 2000 kVA/ 60 Hz/ 1200 rpm/ 480-4160 V/ 0.8 Power Factor

Rating Type: CONTINUOUS

Fuel Strategy: LOW EMISSIONS

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Image shown may not reflect actual configuration

Metric

English

Generator Set Specifications		
Maximum Rating @ 0.80 pf	2000 kVA	1600 ekW
Frequency	60 Hz	
Engine Speed (rpm)	1200 RPM	
Fuel	LOW ENERGY	
Emission Standards	Noncertified	
Performance Number	DM5860-04	
Altitude Capability at 25°C (77°F) ambient, above sea level	420 m	1378 ft

Engine Specifications		
Engine Model	G3520C	
Compression Ratio	11.30	
Aspiration	TA	
Governor Type	ADEM3	
Bore	170 mm	7 in
Displacement	86 L	5263 in ³
Stroke	190 mm	8 in
Aftercooler Temperature	54 °C	130 °F
Jacket Water Outlet	110 °C	230 °F

Package Dimensions*		
Length	6337 mm	249 in
Width	1831 mm	72 in
Height	2492 mm	98 in



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Package Fuel Consumption (ISO 3046/1)		
100% Load without Fan	9.39 MJ/ekw-hr	8907 Btu/ekw-hr
75% Load without Fan	9.73 MJ/ekw-hr	9221 Btu/ekw-hr
50% Load without Fan	10.44 MJ/ekw-hr	9895 Btu/ekw-hr

Exhaust System		
Combustion Air Flow (0° C, 101.3 kPa) / (77° F, 14.7 psia)	4.13 Nm3/bkW-hr	4441 ft3/min
Exhaust temperature - engine outlet	484.00 °C	903 °F
Exhaust gas flow (@engine outlet temp, 14.5psia)	4.60 Nm3/bkW-hr	12723 ft3/min

Heat Rejection		
Jacket Water Circuit (JW + OC + 1AC)	886 kW	50344 Btu/min
Heat rejection to jacket water (JW)	514 kW	29209 Btu/min
Heat rejection to atmosphere (Includes Generator)	199 kW	11299 Btu/min
Heat rejection to exhaust (LHV to 120°C / 248°F)	N/A	N/A

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.