ELECTRIC POWER - Technical Spec Sheet
STANDARD

G3512E

1200 ekW/ 1500 kVA/ 50 Hz/ 1500 rpm/ 380-3300 V/ 0.8 Power Factor

Rating Type: CONTINUOUS

Fuel Strategy: LOW EMISSIONS

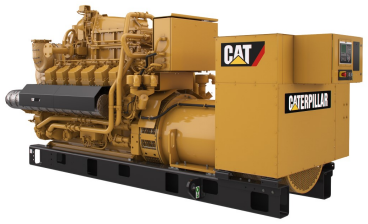


Image shown may not reflect actual configuration

G3512E
1200 ekW/ 1500 kVA/ 50 Hz/ 1500 rpm/ 380-3300 V/ 0.8 Power Factor

	Metric	English
Generator Set Specifications		
Maximum Rating @ 0.80 pf	1500 kVA	1200 ekW
Frequency	50 Hz	
Engine Speed (rpm)	1500 RPM	
Fuel	NATURAL GAS	
Emission Standards	Non-certified Emission Standards	
Performance Number	DM8811-07	
Altitude Capability at 25°C (77°F) ambient, above sea level	900 m	2953 ft

Engine Specifications		
Engine Model	G3512E	
Compression Ratio	11.90	
Aspiration	TA	
Governor Type	ADEM3 W/ IM	
Bore	N/A	N/A
Displacement	52 L	3158 in³
Stroke	N/A	N/A
Aftercooler Temperature	54 °C	130 °F
Jacket Water Outlet	99 °C	210 °F

Package Dimensions*		
Length	4712 mm	185 in
Width	1828 mm	72 in
Height	2356 mm	93 in

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Package Fuel Consumption (ISO 3046/1)		
100% Load without Fan	8.60 MJ/ekw-hr	8151 Btu/ekw-hr
75% Load without Fan	8.81 MJ/ekw-hr	8355 Btu/ekw-hr
50% Load without Fan	9.32 MJ/ekw-hr	8838 Btu/ekw-hr

Exhaust System		
Combustion Air Flow (0° C, 101.3 kPa) / (77° F, 14.7 psia)	3.90 Nm3/bkW-hr	3121 ft3/min
Exhaust temperature – engine outlet	424.00 °C	795 °F
Exhaust gas flow (@engine outlet temp, 14.5psia)	4.15 Nm3/bkW-hr	7862 ft3/min

Heat Rejection		
Jacket Water Circuit (JW + OC + 1AC)	613 kW	34809 Btu/min
Heat rejection to jacket water (JW)	326 kW	18524 Btu/min
Heat rejection to atmosphere (Includes Generator)	137 kW	7786 Btu/min
Heat rejection to exhaust (LHV to 120°C / 248°F)	613 kW	34852 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.

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