

# Cat<sup>®</sup> Gas Generator Set

## Ratings Summary



### 50 Hz Natural Gas<sup>1)</sup> Continuous

Model	rpm	Emission Level (Nox) <sup>2)</sup>		Aftercooler Temperature		Electric Power <sup>3)</sup> @ 1.0 pf kWe	Efficiency <sup>4)</sup>		
		mg/Nm <sup>3</sup>	g/bhp-hr	°C	°F		Electrical %	Thermal %	Total %
G3412C	1500	885	2.0	54	130	370	37.4	47.3	84.7
CG132B-8	1500	500	1.0	45	113	400	43.0	43.7	86.7
CG132B-12	1500	500	1.0	45	113	600	43.2	44.8	88.0
CG132B-16	1500	500	1.0	45	113	800	43.4	44.7	88.1
G3516	1500	834	2.0	54	130	983	34.8	48.3	83.0
CG132B-16	1500	500	1.0	45	113	1000	41.5	47.0	88.0
CG170-12	1500	500	1.0	60	140	1000	43.0	45.4	88.4
CG170-12	1500	500	1.0	40	104	1125	40.7	45.8	86.5
CG170-12	1500	500	1.0	40	104	1200	43.6	43.3	86.9
CG170B-12	1500	500	1.0	40	104	1380	45.0	42.3	87.3
CG170-16	1500	500	1.0	40	104	1500	40.8	46.4	87.2
G3512H	1500	500	1.0	54	130	1500	44.9	42.1	87.0
CG170-16	1500	500	1.0	40	104	1560	43.2	43.8	87.0
G3516C	1500	500	1.0	54	130	1603	40.0	46.5	86.5
CG170B-16	1500	500	1.0	40	104	1840	44.7	42.6	87.3
G3520C	1500	500	1.0	54	130	1976	40.2	46.6	86.8
CG170-20	1500	500	1.0	38	100	2000	44.4	42.5	86.9
G3520C	1500	500	1.0	54	130	2010	40.4	46.1	86.5
G3516H	1500	500	1.0	48	118	2027	45.3	41.3	86.6
CG170B-20	1500	500	1.0	54	130	2300	45.0	42.3	87.3
G3520H	1500	500	1.0	48	119	2519	45.4	40.9	86.3
CG260-12	1000	500	1.0	40	104	3333	43.6	42.9	86.5
CG260-16	1000	500	1.0	40	104	4300	43.8	43.0	86.8
CG260-16	1000	500	1.0	40	104	4500	44.3	43.5	87.8

**50 Hz Biogas, Landfill Gas, Sewage Gas <sup>1)</sup>**

Model	rpm	Emission Level (Nox) <sup>2)</sup>		Aftercooler Temperature		Electric Power <sup>3)</sup> @ 1.0 pf kWe	Efficiency <sup>4)</sup>		
		mg/Nm <sup>3</sup>	g/bhp-hr	°C	°F		Electrical %	Thermal %	Total %
G3412	1500	7051	19.9	–	–	174	27.4	62.0	89.4
CG132B-8	1500	500	1.0	45	113	400	42.8	42.2	85.0
CG132B-12	1500	500	1.0	45	113	600	42.9	42.8	85.7
CG132B-16	1500	500	1.0	45	113	800	43.1	42.6	85.7
CG170-12	1500	500	1.0	60	140	1000	42.6	44.1	86.7
G3516A	1500	500	1.0	54	130	1041	32.1	47.0	79.1
G3516A	1500	500	1.0	54	130	1105	36.8	41.5	78.3
CG170-12	1500	500	1.0	50	122	1200	43.0	42.7	85.7
CG170B-12	1500	500	1.0	45	113	1380	43.6	42.7	86.3
CG170-16	1500	500	1.0	50	122	1560	42.6	42.9	85.5
CG170B-16	1500	500	1.0	45	113	1840	43.6	42.7	86.3
G3520C	1500	500	1.0	54	130	1984	39.4	41.4	80.5
CG170-20	1500	500	1.0	50	122	2000	43.0	43.2	86.2
CG170B-20	1500	500	1.0	50	122	2300	43.6	42.6	86.2
CG260-16	1000	500	1.0	40	104	3770	43.0	39.8	82.8

**60 Hz Natural Gas<sup>1)</sup> Continuous**

Model	rpm	Emission Level (Nox) <sup>2)</sup>		Aftercooler Temperature		Electric Power <sup>3)</sup> @ 1.0 pf kWe	Efficiency <sup>4)</sup>		
		mg/Nm <sup>3</sup>	g/bhp-hr	°C	°F		Electrical %	Thermal %	Total %
G3412	1800	8566	22.1	–	–	253	30.3	60.9	91.2
CG132B-8	1800	500	1.0	45	113	400	42.0	45.2	87.2
G3412	1800	10624	25.7	54	130	403	33.4	54.3	87.7
G3412C	1800	800	1.9	54	130	453	35.3	47.1	82.4
CG132B-12	1800	500	1.0	45	113	600	42.2	45.9	88.1
CG132B-16	1800	500	1.0	45	113	800	42.4	45.7	88.1
CG170-12	1500	500	1.0	40	104	1125	40.4	45.8	86.2
CG170-12	1500	500	1.0	40	104	1200	43.4	43.2	86.6
G3512H	1500	500	1.0	54	130	1500	44.6	42.0	86.6
CG170-16	1500	500	1.0	40	104	1500	40.4	46.4	86.8
CG170-16	1500	500	1.0	40	104	1560	43.0	43.8	86.8
G3516C	1800	443	1.0	54	130	1675	37.7	48.4	86.1
CG170-20	1500	500	1.0	40	104	2000	43.4	43.3	86.7
G3516H	1500	500	1.0	48	119	2008	45.0	41.1	86.1
G3520C	1800	446	1.0	54	130	2077	37.3	49.4	86.7
G3520H	1500	500	1.0	48	119	2500	45.4	41.0	86.4
CG260-12	900	500	1.0	40	104	3000	43.9	42.1	86.0
CG260-16	900	500	1.0	40	104	4000	43.8	42.4	86.2
CG260-16	900	500	1.0	40	104	4050	44.3	42.6	86.9

**60 Hz Natural Gas<sup>1)</sup> Standby**

Model	rpm	Emission Compliance	kWe @ 0.8 pf	NFPA 110 Compliant	Max Load Step %	UL2200
DG175-1 GC	1800	US EPA Stationary Emergency Certified	175	Yes	100	Yes
DG200-1 GC	1800	US EPA Stationary Emergency Certified	200	Yes	100	Yes
DG230-1 GC	1800	US EPA Stationary Emergency Certified	230	Yes	100	Yes
DG250-1 GC	1800	US EPA Stationary Emergency Certified	250	Yes	100	Yes
DG275-1 GC	1800	US EPA Stationary Emergency Certified	275	Yes	100	Yes
DG300-1 GC	1800	US EPA Stationary Emergency Certified	300	Yes	100	Yes
DG350-1 GC	1800	US EPA Stationary Emergency Certified	350	Yes	100	Yes
DG400-1 GC	1800	US EPA Stationary Emergency Certified	400	Yes	100	Yes
DG450-1 GC	1800	US EPA Stationary Emergency Certified	450	Yes	100	Yes
G3412C	1800	NSPS Compliant Capable <sup>5)</sup>	500	No	100	No
G3412	1800	US EPA Stationary Emergency Certified	500	Yes	100	Yes
G3512	1800	US EPA Stationary Non-Emergency Certified	750	Yes	100	Yes
G3512	1800	US EPA Stationary Non-Emergency Certified	1000	Yes	100	Yes
G3516	1800	US EPA Stationary Emergency Certified	1500	Yes	100	Yes
G3520	1800	US EPA Stationary Non-Emergency Certified	2000	Yes	100	Yes
G3520	1800	US EPA Stationary Non-Emergency Certified	2500	Yes	100	Yes

# Gas Generator Set Product Ratings Summary



## 60 Hz Biogas, Landfill Gas, Sewage Gas <sup>1)</sup>

Model	rpm	Emission Level (Nox) <sup>2)</sup>		Aftercooler Temperature		Electric Power <sup>3)</sup> @ 1.0 pf kWe	Efficiency <sup>4)</sup>		
		mg/Nm <sup>3</sup>	g/bhp-hr	°C	°F		Electrical %	Thermal %	Total %
G3412	1800	7051	16.4	–	–	194	26.5	62.9	89.4
CG132B-8	1800	500	1.0	45	113	400	41.7	43.3	85.0
CG132B-12	1800	500	1.0	45	113	600	41.7	43.6	85.3
CG132B-16	1800	500	1.0	45	113	800	41.9	43.3	85.2
G3516A	1200	500	1.0	54	130	824	31.0	47.7	78.7
G3516A	1200	396	0.9	54	130	1012	38.4	37.8	76.2
CG170-12	1500	500	1.0	50	122	1200	42.8	42.5	85.3
CG170-16	1500	500	1.0	50	122	1560	42.3	42.8	85.1
G3520C	1200	439	1.0	54	130	1622	39.8	40.9	80.8
G3520C	1500	500	1.0	54	130	1936	39.1	41.4	80.5
CG170-20	1500	500	1.0	50	122	2000	42.7	43.2	85.9
CG260-16	900	500	1.0	40	104	3510	43.2	38.5	81.7

### Notes:

<sup>1)</sup> Bio Gases at LHV = 18.0-23.3 MJ/Nm<sup>3</sup> (457 to 593 Btu/cu.ft); MN=130-134. Natural Gas at 34.56 MJ/Nm<sup>3</sup> (905 Btu/cu.ft); MN = 80.

<sup>2)</sup> Emissions are based on the engine operating at steady state conditions and adjusted to the specified NOx level at 100% load. Values are engine out without exhaust aftertreatment and subject to nominal tolerance based on fuel, site and operating conditions.

<sup>3)</sup> Power output based on ISO 3046/1 conditions.

<sup>4)</sup> Electrical efficiency based on 1.0 pf, ISO 3046/1. Thermal efficiency based on nominal tolerance (+/-8% for CG line, +/- 10% for G3300/3400/3500/GCM34 line).

Thermal efficiency includes heat rejection from jacket water circuit and exhaust gas at LHV to 120°C (CG series using Bio Gas: 150°C for CG 132/170, 180°C for CG260).

<sup>5)</sup> NSPS Compliant Capable with addition of three-way catalyst or oxidation catalyst.

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