50Hz GAS GENERATOR SET PRODUCT RATINGS SUMMARY

Natural Gas [1]

Model	rpm	Emission Level (No_x) [2]		Aftercooler Temperature		Electric Power [3] @ 1.0 pf	Efficiency [4]		
							Electrical Efficiency	Thermal Efficiency	Total Efficiency
		mg/Nm^3	g/bhp-hr	°C	°F	kW_e	%	%	%
G3406	1500	11293	27.5	-	-	125	31.9%	57.5%	89.4%
G3406	1500	9986	25.0	54	130	160	32.2%	50.2%	82.4%
G3412C	1500	885	2.0	54	130	370	37.4%	47.3%	84.7%
CG132B-8	1500	500	1.0	45	113	400	43.1%	43.6%	86.7%
CG132B-12	1500	500	1.0	45	113	600	43.3%	44.6%	87.9%
CG132B-16	1500	500	1.0	45	113	800	43.5%	44.6%	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	41.0%	47.0%	88.0%
CG170-12	1500	500	1.0	60	140	1000	43.0%	45.4%	88.4%
G3512E	1500	500	1.0	54	130	1017	41.5%	44.7%	86.7%
CG170-12	1500	500	1.0	40	104	1125	40.9%	45.6%	86.5%
CG170-12	1500	500	1.0	40	104	1200	43.6%	43.3%	86.9%
G3512E	1500	500	1.0	54	130	1211	42.2%	44.2%	86.4%
CG170-16	1500	500	1.0	40	104	1500	40.9%	45.7%	86.6%
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%
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%
G3520E	1500	500	1.0	54	130	2039	42.5%	45.1%	87.6%
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	43.9%	42.6%	86.5%
CG260-16	1000	500	1.0	40	104	4300	44.1%	42.7%	86.8%
CG260-16	1000	500	1.0	40	104	4500	44.6%	43.2%	87.8%
G16CM34	750	500	1	45	113	6585	46.80%	46.10%	92.90%
G20CM34	750	500	1	45	113	10320	47.90%	45.30%	93.20%

Biogas [1]

Model	rpm	Emission Level (No_x) [2]		Aftercooler Temperature		Electric Power [3] @ 1.0 pf	Efficiency [4]		
							Electrical Efficiency	Thermal Efficiency	Total Efficiency
		mg/Nm^3	g/bhp-hr	°C	°F	kW_e	%	%	%
G3406	1500	7613	21.0	-	-	107	28.8%	60.7%	89.5%
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%	44.2%	86.8%
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%	42.8%	85.8%
CG170-16	1500	500	1.0	50	122	1560	42.6%	43.1%	85.7%
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%	43.3%	86.3%
CG170B-20	1500	500	1.0	50	122	2300	43.6%	42.9%	86.5%
CG260-16	1000	500	1.0	40	104	3770	43.0%	39.8%	82.8%

[1] Bio Gases at LHV = 18.0-23.3MJ/Nm^3 (457 to 593 Btu/cu.ft); MN=130-134. Natural Gas at 34.56 MJ/Nm^3 (905Btu/cu.ft); MN = 70 for CG series, all others 80.
[2] 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.
[3] Power output based on ISO3046/1 conditions.
[4] 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) and 80°C for GCM34.
[5] NSPS Compliant Capable with addition of three-way catalyst or oxidation catalyst.

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60Hz GAS GENERATOR SET PRODUCT RATINGS SUMMARY

Natural Gas [1] Continuous

Model	rpm	Emission Level (No_x) [2]		Aftercooler Temperature		Electric Power [3] @ 1.0 pf	Efficiency [4]		
							Electrical Efficiency	Thermal Efficiency	Total Efficiency
		mg/Nm^3	g/bhp-hr	°C	°F	kW_e	%	%	%
G3406	1800	9176	21.6	–	–	155	30.1%	57.3%	87.4%
G3406	1800	8269	19.7	54	130	217	33.5%	52.9%	86.4%
G3412	1800	8566	22.1	–	–	253	30.3%	60.9%	91.2%
CG132B-8	1800	500	1.0	45	113	400	42.1%	45.0%	87.1%
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	42.4%	45.7%	88.1%
CG132B-16	1800	500	1.0	45	113	800	42.6%	45.5%	88.1%
CG170-12	1500	500	1.0	40	104	1125	40.7%	45.6%	86.3%
CG170-12	1500	500	1.0	40	104	1200	43.4%	43.2%	86.6%
G3516B	1800	500	1.0	54	130	1318	35.7%	50.2%	85.9%
G3512H	1500	500	1.0	54	130	1500	44.6%	42.0%	86.6%
CG170-16	1500	500	1.0	40	104	1500	40.6%	45.7%	86.3%
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%	43.2%	86.6%
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%
G16CM34	720	500	1.0	45	113	6585	46.4%	46.0%	92.4%
G20CM34	720	500	1.0	45	113	9830	48.0%	45.1%	93.1%

Natural Gas [1] Standby

Model	rpm	Emission Compliance	kW_e @ 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
G3412	1800	NSPS Compliant Capable (note 5)	400	No	–	No
G3412C	1800	NSPS Compliant Capable (note 5)	500	No	100%	No
G3512	1800	US EPA Stationary Non-Emergency Certified	750	Yes	100%	Yes
G3512	1800	US EPA Stationary Non-Emergency Certified	1000	Yes	100%	Yes
G3516B	1800	NSPS Compliant Capable (note 5)	1300	No	25%	No
G3516C	1800	NSPS Compliant Capable (note 5)	1500	No	25%	No
G3520	1800	US EPA Stationary Non-Emergency Certified	2000	Yes	100%	Yes
G3520	1800	US EPA Stationary Non-Emergency Certified	2500	Yes	100%	Yes

Low Energy Fuel continued on back

60Hz GAS GENERATOR SET PRODUCT RATINGS SUMMARY

Biogas, Landfill Gas, Sewage Gas [1]

Model	rpm	Emission Level (No_x) [2]		Aftercooler Temperature		Electric Power [3] @ 1.0 pf	Efficiency [4]		
							Electrical Efficiency	Thermal Efficiency	Total Efficiency
		mg/Nm^3	g/bhp-hr	°C	°F	kW_e	%	%	%
G3406	1800	7613	21.0	–	–	137	27.7%	61.1%	88.8%
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%	42.8%	85.6%
CG170-16	1500	500	1.0	50	122	1560	42.3%	43.1%	85.4%
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	43.3%	38.5%	81.8%

[1] Bio Gases at LHV = 18.0-23.3MJ/Nm^3 (457 to 593 Btu/cu.ft); MN=130-134. Natural Gas at 34.56 MJ/Nm^3 (905Btu/cu.ft); MN = 70 for CG series, all others 80.
[2] 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.
[3] Power output based on ISO3046/1 conditions.
[4] 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) and 80°C for GCM34.
[5] NSPS Compliant Capable with addition of three-way catalyst or oxidation catalyst.

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