

Gas Cogeneration Selection Chart

04/2019

Biogas Cogeneration

High Value CHP—CG Series

Voltage 380-415V / 50Hz / 1500RPM / 3P

Product Model	Electric Power kW _e	Heat Power kW _t	Electric Efficiency	Heat Efficiency	Total Efficiency	Gas Consump. m ³ /h@100%load	Optional Structure	Product Appearance
CG66-BG	66	90	38.3%	52.0%	90.2%	28.7	<input type="checkbox"/> Open <input type="checkbox"/> Soundproof <input type="checkbox"/> Containerized	
CG100-BG	100	135	36.5%	49.3%	85.8%	45.6		
CG200-BG	200	255	36.7%	46.8%	83.5%	90.8		
CG220-BG	220	269	40.2%	49.1%	89.3%	91.2		
CG250-BG	250	325	38.1%	49.6%	87.7%	109.4		
CG350-BG	350	450	39.6%	50.5%	89.8%	147.3		
CG400-BG	400	528	38.1%	50.3%	88.4%	175.0		
CG450-BG	450	549	40.1%	48.9%	89.0%	187.0		
CG520-BG	520	654	38.3%	48.2%	86.5%	226.3		
CG875-BG	875	1026	38.2%	44.8%	83.0%	381.8		
CG1000-BG	1000	1090	38.7%	42.2%	80.9%	430.7		

High-end CHP—TCG Series

Voltage 380-415V / 50Hz / 1500RPM / 3P

Product Model	Electric Power kW _e	Heat Power kW _t	Electric Efficiency	Heat Efficiency	Total Efficiency	Gas Consump. m ³ /h@100%load	Optional Structure	Product Appearance
TCG600-BG	600	599	42.9%	42.8%	85.7%	233.1	<input type="checkbox"/> Open <input type="checkbox"/> Containerized	
TCG800-BG	800	824	42.5%	43.8%	86.3%	313.7		
TCG1000-BG	1000	1036	42.6%	44.2%	84.3%	391.2		
TCG1200-BG	1200	1248	42.1%	43.8%	85.9%	475.1		
TCG1560-BG	1560	1642	42.6%	43.1%	85.7%	610.3		
TCG2000-BG	2000	2076	42.6%	44.2%	86.8%	782.5		

High Cost Effective CHP—GXC Series

Voltage 380-415V / 50Hz / 1500RPM / 3P

Product Model	Electric Power kW _e	Heat Power kW _t	Electric Efficiency	Heat Efficiency	Total Efficiency	Gas Consump. m ³ /h@100%load	Optional Structure	Product Appearance
GXC50-BG	50	69	32.6%	45.3%	77.9%	25.6	<input type="checkbox"/> Open <input type="checkbox"/> Soundproof <input type="checkbox"/> Containerized	
GXC100-BG	100	138	35.2%	48.6%	83.8%	47.3		
GXC150-BG	150	207	35.3%	48.8%	84.1%	70.8		
GXC200-BG	200	272	35.5%	48.3%	83.8%	93.8		
GXC250-BG	250	319	36.5%	46.6%	83.1%	114.2		
GXC350-BG	350	429	37.8%	46.3%	84.1%	154.3		
GXC550-BG	550	672	38.4%	46.9%	85.3%	238.7		
GXC800-BG	800	970	38.2%	46.3%	84.5%	349.0		
GXC1000-BG	1000	1223	38.1%	46.6%	84.7%	437.4		

Note:

- The technical data are based on following standard conditions:
 Absolute atmospheric pressure: 100kPa
 Ambient temperature: 25°C
 Relative air humidity: 30%
- Biogas meets following requirements:
 Methane number: MN > 100
 lower calorific value: LHV ≥ 21.6MJ/Nm³ or 6kWh/Nm³
- About detailed technical information, please contact Powerlink to get technical data sheet and drawing.
- If you want to know the biogas desulfurization equipment, pretreatment equipment, blower, emergency relief torch, double membrane, please inquire "Biogas Energy Product Selection Chart".




Gas Cogeneration Selection Chart

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Natural Gas Cogeneration


High Value CHP—CG Series

Voltage 380-415V / 50Hz / 1500RPM / 3P

Product Model	Electric Power kW _e	Heat Power kW _t	Electric Efficiency	Heat Efficiency	Total Efficiency	Gas Consump. m ³ /h@100%load	Optional Structure	Product Appearance
CG50-NG	50	73	36.5%	53.5%	90.0%	13.7	<input type="checkbox"/> Open <input type="checkbox"/> Soundproof <input type="checkbox"/> Containerized	
CG66-NG	66	91	38.4%	53.1%	91.5%	17.2		
CG75-NG	75	106	36.8%	52.2%	90.2%	20.4		
CG100-NG	100	138	35.5%	48.9%	84.4%	27.4		
CG150-NG	150	207	38.3%	52.8%	91.2%	39.2		
CG200-NG	200	263	37.2%	48.9%	86.1%	53.8		
CG220-NG	220	237	43.4%	46.8%	90.2%	50.7		
CG250-NG	250	330	36.8%	48.7%	85.5%	67.9		
CG270-NG	270	368	39.6%	54.0%	93.6%	68.2		
CG350-NG	350	439	41.9%	52.5%	94.4%	83.5		
CG400-NG	400	460	38.6%	44.4%	83.0%	103.6		
CG450-NG	450	527	42.1%	49.3%	91.4%	106.8		
CG520-NG	520	647	38.8%	48.3%	87.0%	134.0		
CG875-NG	875	1026	38.2%	44.8%	83.0%	229.1		
CG1000-NG	1000	1090	38.7%	42.2%	80.9%	258.4		


High-end CHP—TCG Series

Voltage 380-415V / 50Hz / 1500RPM / 3P

Product Model	Electric Power kW _e	Heat Power kW _t	Electric Efficiency	Heat Efficiency	Total Efficiency	Gas Consump. m ³ /h@100%load	Optional Structure	Product Appearance
TCG600-NG	600	619	43.3%	44.6%	87.9%	138.6	<input type="checkbox"/> Open <input type="checkbox"/> Containerized	
TCG800-NG	800	820	43.5%	44.6%	88.1%	184.0		
TCG1000-NG	1000	1028	43.0%	45.4%	88.4%	232.6		
TCG1200-NG	1200	1192	43.6%	43.3%	86.9%	275.2		
TCG1560-NG	1560	1582	43.2%	43.8%	87.0%	361.1		
TCG2000-NG	2000	1977	43.7%	43.2%	86.9%	457.7		

High Cost Effective CHP—GXC Series

Voltage 380-415V / 50Hz / 1500RPM / 3P

Product Model	Electric Power kW _e	Heat Power kW _t	Electric Efficiency	Heat Efficiency	Total Efficiency	Gas Consump. m ³ /h@100%load	Optional Structure	Product Appearance
GXC50-NG	50	70	32.6%	45.2%	77.5%	16.1	<input type="checkbox"/> Open <input type="checkbox"/> Soundproof <input type="checkbox"/> Containerized	
GXC100-NG	100	133	35.5%	47.3%	82.8%	29.7		
GXC150-NG	150	203	35.6%	48.2%	83.8%	44.3		
GXC200-NG	200	271	35.7%	48.4%	84.1%	59.0		
GXC250-NG	250	320	36.2%	48.3%	82.5%	72.7		
GXC350-NG	350	429	38.8%	47.6%	86.4%	95.0		
GXC550-NG	550	672	38.4%	46.9%	85.3%	150.8		
GXC800-NG	800	970	38.2%	46.3%	84.5%	220.4		
GXC1000-NG	1000	1223	38.1%	46.6%	84.7%	276.3		

Note:

- The technical data are based on following standard conditions:
 Absolute atmospheric pressure: 100kPa
 Ambient temperature: 25°C
 Relative air humidity: 30%
- Natural gas meets following requirements:
 Methane number: MN > 80
 lower calorific value: LHV ≥ 36MJ/Nm³ or 10kWh/Nm³
- About detailed technical information, please contact Powerlink to get technical data sheet and drawing.

