

Global Leader in Gas Engines and Energy Solutions

LY170 SERIES GAS GENSET

900_{kw} - 2000_{kw} | 42.1%+ | 88.5%



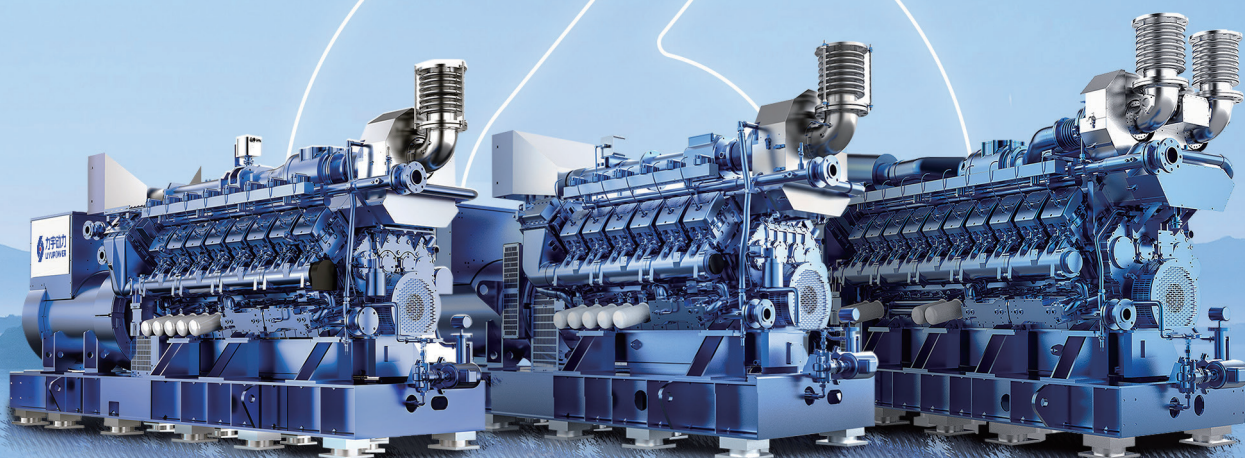
POWER OUTPUT



ELECTRICAL EFFICIENCY



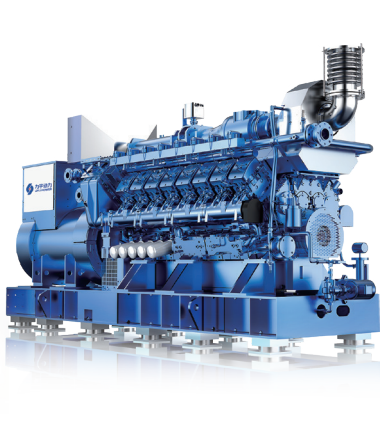
TOTAL EFFICIENCY



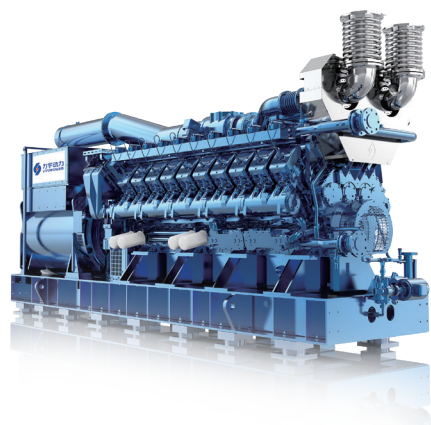
LIYU GAS GENSET SERIES



LY1200



LY1600



LY2000

Liyu gas generator sets are highly versatile, suitable for a wide range of applications, including natural gas, biomass gas, landfill gas, biogas, high-and low-concentration coal bed methane (CBM) gas, industrial gas, associated petroleum gas, and other specialized power generation sources.

Our equipment integrates advanced international control systems, detection systems, and protection systems, combined with cutting-edge finite element analysis technology, ensuring efficient and stable operation even under varying gas quality conditions.

TECHNICAL PARAMETERS

Genset Model		Unit	LY1200	LY1600	LY2000
Cylinders		qty	12	16	20
Bore / Stroke		mm	170/195	170/195	170/195
Displacement		dm ³	53.1	70.8	88.5
Rotating Speed		rpm	1500	1500	1500
Mean Piston Speed		m/s	9.75	9.75	9.75
Length	1}	mm	5700	6820	7450
Width	1}	mm	1700	1700	1700
Height	1}	mm	2650	2650	2700
Dry Weight Genset		t	13	15	18
AC Of Lube Oil		g/kW·h	≤0.2	≤0.2	≤0.2

For special gas and dual fuel gas applications, please consult our staff. The data herein are for reference only and not as binding value.

1.For the transportation size of genset, the components set separately must be considered separately

2.NO_x emission: NO_x≤500mg /Nm³, NO_x/Nm³(Content of dry exhaust gas in 5% O₂)

3.Refers to ISO8525-1, 50Hz Generator U=10kV, Cosphi=1.0, the minimum methane number of natural gas is MN70

4.Refers to ISO3046/1, 50Hz Generator U=10kV, Cosphi=1.0, the minimum methane number of natural gas is MN70

■ LY1200 -TECHNICAL PARAMETERS

No_x≤500mg/Nm³ 2)

Application area	Unit	Natural gas application 50Hz	Associated petroleum gas application 50Hz	Low-concentration CBM application 50Hz	Biogas application 50Hz	Industrial Gas Application 50Hz	Biomass Gas Application 50Hz	Blast Furnace Gas Application 50Hz	Coal-to-gas Application 50Hz
Genset Model		LY1200AGL/M/H-T	LY1200AGL/M/H-T1	LY1200AGL/M/H-WL	LY1200AGL/M/H-Z	LY1200AGL/M/H-M	LY1200AGL/M/H-S	LY1200AGL/M/H-G	LY1200AGL/M/H-M1
Electrical Power ³⁾ ± 5%	kW	1200	900	1100	1150	900	830	850	900
Fuel Consumption	kW	2745	2368	2500	2689	2368	2133	2162	2368
Electrical Efficiency ⁴⁾	%	41.9	38.0	40.0	40.9	38.1	37.5	37.0	38.0
Thermal Efficiency	%	45.5	48.4	47.3	46.0	48.4	48.2	48.6	47.6
Total Efficiency	%	87.4	86.4	87.3	86.9	86.5	85.7	85.6	85.6

■ LY1600 -TECHNICAL PARAMETERS

No_x≤500mg/Nm³ 2)

Application area	Unit	Natural gas application 50Hz	Associated petroleum gas application 50Hz	Low-concentration CBM application 50Hz	Biogas application 50Hz	Industrial Gas Application 50Hz	Biomass Gas Application 50Hz	Blast Furnace Gas Application 50Hz	Coal-to-gas Application 50Hz
Genset Model		LY1600AGL/M/H-T	LY1600AGL/M/H-T1	LY1600AGL/M/H-WL	LY1600AGL/M/H-Z	LY1600AGL/M/H-M	LY1600AGL/M/H-S	LY1600AGL/M/H-G	LY1600AGL/M/H-M1
Electrical Power ³⁾ ± 5%	kW	1600	1200	1500	1550	1200	1100	1100	1200
Fuel Consumption	kW	3682	3141	3483	3650	3000	2910	2933	3141
Electrical Efficiency ⁴⁾	%	42.1	38.2	40.2	41.1	40.0	37.8	37.5	38.2
Thermal Efficiency	%	45.8	48.2	47.6	47.1	47.2	48.4	48.6	46.7
Total Efficiency	%	87.9	86.4	87.8	88.2	87.2	86.2	86.1	84.9

■ LY2000 -TECHNICAL PARAMETERS

No_x≤500mg/Nm³ 2)

Application area	Unit	Natural gas application 50Hz	Associated petroleum gas application 50Hz	Low-concentration CBM application 50Hz	Biogas application 50Hz	Industrial Gas Application 50Hz	Biomass Gas Application 50Hz	Blast Furnace Gas Application 50Hz	Coal-to-gas Application 50Hz
Genset Model		LY2000AGL/M/H-T	LY2000AGL/M/H-T1	LY2000AGL/M/H-WL	LY2000AGL/M/H-Z	LY2000AGL/M/H-M	LY2000AGL/M/H-S	LY2000AGL/M/H-G	LY2000AGL/M/H-M1
Electrical Power ³⁾ ± 5%	kW	2000	1500	1850	1900	1500	1400	1400	1500
Fuel Consumption	kW	4808	3896	4591	4390	3741	3684	3723	3896
Electrical Efficiency ⁴⁾	%	42.0	38.5	40.3	41.0	40.1	38.0	37.6	38.5
Thermal Efficiency	%	46.5	48.5	47.9	46.3	47.6	48.2	48.7	47.9
Total Efficiency	%	88.5	87.0	88.2	87.3	87.7	86.2	86.3	86.4

Note: Factors such as gas quality, air pressure, calorific value, operating environment, and personnel operation level will affect the final output of the unit.

- Sewage Treatment Biogas (65%CH₄/ 35%CO₂)
 - Biomass gas (60%CH₄/ 32%CO₂, the rest are N₂)
 - Landfill gas (50%CH₄/ 27%CO₂, the rest areN₂)
 - Industrial gas (75%CO, 6%H₂, 3%CH₄, 9%CO₂, the rest are N₂)
- Associated petroleum gas (56% CH₄, 22% C₂H₆, 7% C₃H₈, with the remainder consisting of trace amounts of inert gases)
 - Coal-to-gas (27% CO, 14% H₂, 50% N₂, with the remainder consisting of small amounts of inert gases)
 - Blast furnace gas (25% CO, 50% N₂, with the remainder consisting of small amounts of inert gases)

PRODUCTS ADVANTAGES



High Efficiency

Power Generation Efficiency: Over 42%
Comprehensive Utilization Efficiency: Up to 88%
(under standard gas conditions)



Exceptional Reliability

Unit Overhaul Cycle: 64,000 hours for natural gas;
48,000 hours for other gases
Annual Operating Hours: Up to 8,000 hours



Streamlined Maintenance

Professional maintenance team, well-stocked
spare parts warehouse, and comprehensive
service system.



Compact Design

Small size and lightweight
Highest power output in its class



Reduced Emissions

$\text{No}_x \leq 500 \text{mg/ Nm}^3$ (2g/kW·h)



Minimal Lubricant Oil Consumption

Lubricant Oil Usage: $\leq 0.2 \text{ g/kW}\cdot\text{h}$



Enhanced Safety

Multi-stage flameproof and explosion-proof
construction, Advanced detonation control
systems



Versatile Application Range

Liyu gas generator sets are highly versatile, suitable
for a wide range of applications, including natural
gas, biomass gas, landfill gas, biogas, high- and low-
concentration coal bed methane(CBM) gas, industrial
gas, associated petroleum gas, and other specialized
power generation sources.

PERFORMANCE OVERVIEW

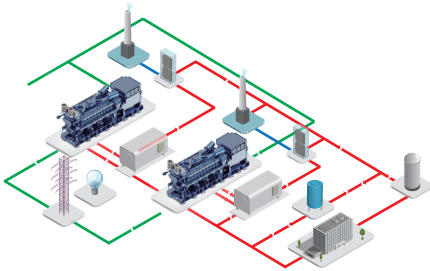
By 2025, the company's total installed capacity from projects in commercial operation and under construction exceeded 1,570 MW. It is projected to supply nearly 10 billion kilowatt-hours of green electricity to society annually, reducing carbon dioxide emissions by approximately 14.8 million metric tons per year and generating energy-saving and emission-reduction benefits worth about 7.7 billion yuan.

Performance Table

Industrial Gas		513MW
Natural Gas		506.6MW
Coal-bed Methane (CBM)		350MW
Biogas		129.2MW
Blast Furnace Gas		41.8MW
Associated Petroleum Gas		22.5MW
Biomass And Other Gases		10.8MW
Coal-to-Gas		2.5MW

CLASSIC CASES

■ Application Of Natural Gas



HuangHua International Airport(CHN)

Location: Changsha,Hunan

Installed Engines: 1 x LY1200

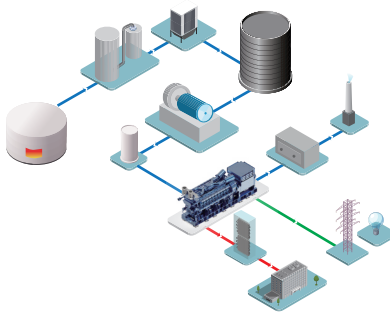


Natural Gas

Location: Northern Europe

Installed Engines: 15 xLY2000

■ Application Of Industrial Gas



Kohan Ferroalloy(CHN)

Location: Fengzhen, Inner Mongolia

Installed Engines: 12 x LY1600

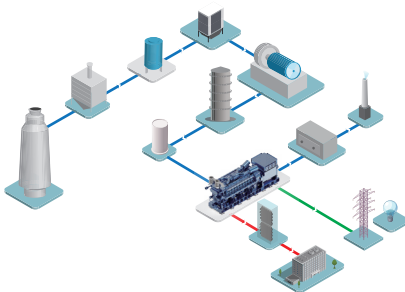


Fengyu Ferroalloy(CHN)

Location: Fengzhen, Inner Mongolia

Installed Engines: 22 x LY1600

■ Application Of Blast furnace gas



Henan Blast Furnace Gas(CHN)

Location: Henan

Installed Engines: 22 x LY2000

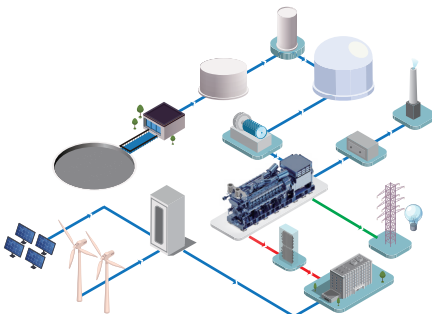


Jiangxi Blast Furnace Gas(CHN)

Location: Jiangxi

Installed Engines: 8 x LY2000

■ Application Of Biogas



Bili Dam Landfill(CHN)

Location: Guiyang,Guizhou

Installed Engines: 7 x LY1600 & 3 x LY1200



Xindi Biogas(CHN)

Location: Foshan, Guangdong

Installed Engines: 2x LY1200 & 5 xLY1600

Headquarters

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