

Global Leader in Gas Engines and Energy Solutions

LY170 SERIES GAS GENSET

900_{kw} - 2000_{kw} | 41.6% | 88.5%



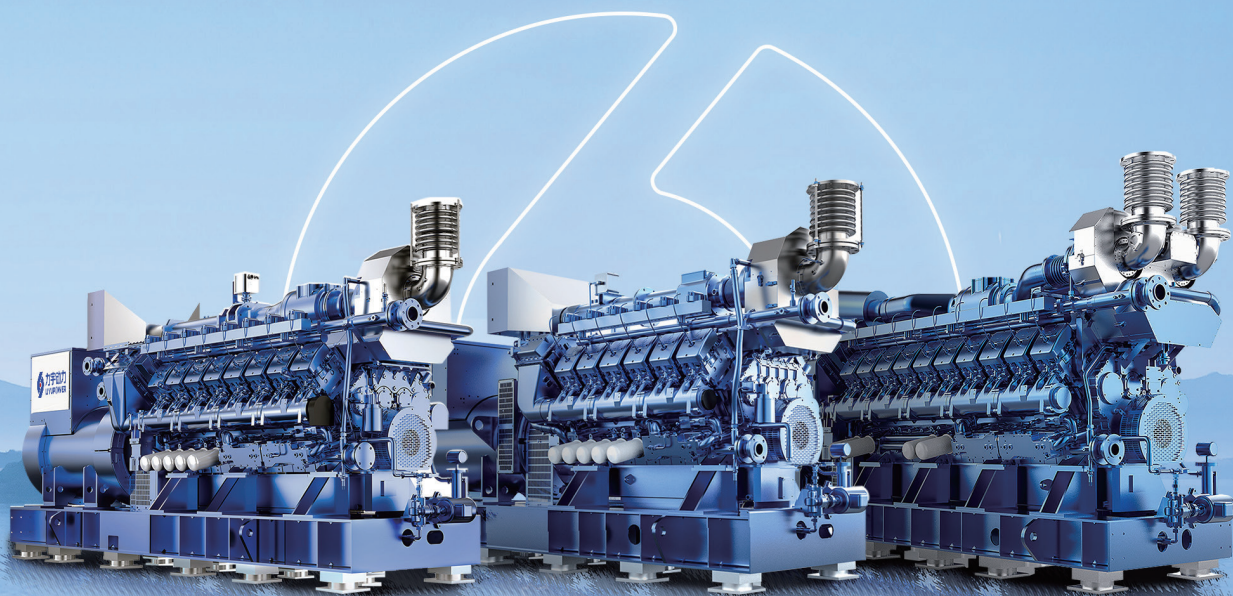
POWER OUTPUT



ELECTRICAL EFFICIENCY



TOTAL EFFICIENCY



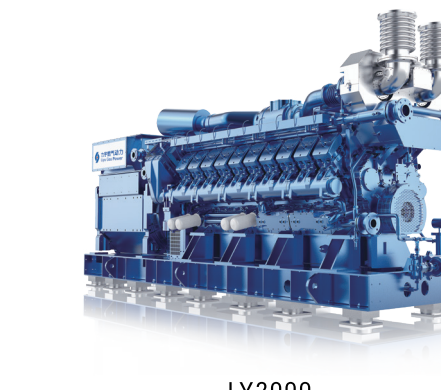
LIYU GAS GENSET SERIES



LY1200



LY1600



LY2000

Liyu gas generator sets are highly versatile, suitable for a wide range of applications, including natural gas, associated petroleum gas, biomass gas, biogas, high and low concentration coal bed methane (CBM), industrial gases, blast furnace gas, basic oxygen furnace gas, coal to gas, and other specialized power generation fields, adaptable to the resource conditions of different regions.

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	5300	6820	7320
Width 1}	mm	1700	1700	1700
Height 1}	mm	2650	2650	2750
Dry Weight Genset	t	13	15	17
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

 $\text{No}_x \leq 500 \text{mg/Nm}^3$ 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		LY1200GL/M/H-T	LY1200GL/M/H-T1	LY1200GL/M/H-WL	LY1200GL/M/H-Z	LY1200GL/M/H-M	LY1200GL/M/H-S	LY1200GL/M/H-G	LY1200GL/M/H-M1
Electrical Power ³⁾ $\pm 10\%$	kW	1080	900	1000	1050	900	800	800	900
Fuel Consumption	kW	2634	2368	2500	2593	2368	2133	2162	2368
Electrical Efficiency ⁴⁾	%	41.0	38.0	40.0	40.5	38.0	37.5	37.0	38.0
Thermal Efficiency	%	46.5	48.4	47.3	46.9	48.4	48.2	48.6	47.6
Total Efficiency	%	87.5	86.4	87.3	87.4	86.4	85.7	85.6	85.6

■ LY1600 -TECHNICAL PARAMETERS

 $\text{No}_x \leq 500 \text{mg/Nm}^3$ 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		LY1600GL/M/H-T	LY1600GL/M/H-T1	LY1600GL/M/H-WL	LY1600GL/M/H-Z	LY1600GL/M/H-M	LY1600GL/M/H-S	LY1600GL/M/H-G	LY1600GL/M/H-M1
Electrical Power ³⁾ $\pm 10\%$	kW	1500	1200	1400	1460	1200	1100	1100	1200
Fuel Consumption	kW	3632	3141	3483	3587	3000	2910	2933	3141
Electrical Efficiency ⁴⁾	%	41.3	38.2	40.2	40.7	40.0	37.8	37.5	38.2
Thermal Efficiency	%	46.7	48.2	47.6	47.2	47.2	48.4	48.6	46.7
Total Efficiency	%	88.0	86.4	87.8	87.9	87.2	86.2	86.1	84.9

■ LY2000 -TECHNICAL PARAMETERS

 $\text{No}_x \leq 500 \text{mg/Nm}^3$ 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		LY2000GL/M/H-T	LY2000GL/M/H-T1	LY2000GL/M/H-WL	LY2000GL/M/H-Z	LY2000GL/M/H-M	LY2000GL/M/H-S	LY2000GL/M/H-G	LY2000GL/M/H-M1
Electrical Power ³⁾ $\pm 10\%$	kW	2000	1500	1850	1950	1500	1400	1400	1500
Fuel Consumption	kW	4808	3896	4591	4768	3741	3684	3723	3896
Electrical Efficiency ⁴⁾	%	41.6	38.5	40.3	40.9	40.1	38.0	37.6	38.5
Thermal Efficiency	%	46.9	48.5	47.9	47.4	47.6	48.2	48.7	47.9
Total Efficiency	%	88.5	87.0	88.2	88.3	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 are N₂)
- Industrial gas (75%CO, 6%H₂, 3%CH₄, 9%CO₂, the rest are N₂)

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

PRODUCTS ADVANTAGES



High Efficiency

Power Generation Efficiency: Over 41%
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

natural gas, associated petroleum gas, biomass
gas, biogas, high and low concentration coal bed
methane (CBM), industrial gases, blast furnace
gas, basic oxygen furnace gas, coal-to-gas, and other
specialized power generation fields, adaptable to the
resource conditions of different regions.

PERFORMANCE OVERVIEW

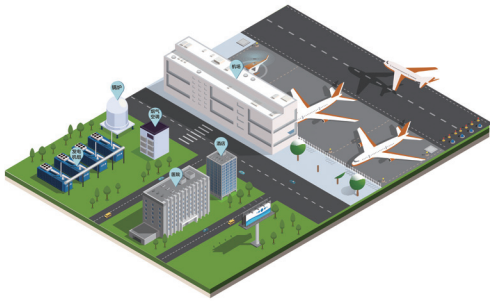
As of January 2025, Liyu has surpassed a total installed capacity of 1,490 MW across both commercial operations and ongoing construction projects. Every year, our units provide nearly 11.90 billion kWh of green electricity to society, reducing CO₂ emissions by over 13.99 million tons annually. Additionally, we deliver energy conservation and emission reduction benefits worth approximately 7.4 billion yuan.

Performance Table

Industrial Gas	<div></div>	505.6MW
Natural Gas	<div></div>	453.5MW
Coal-bed Methane (CBM)	<div></div>	350MW
Biogas	<div></div>	129.2MW
Blast Furnace Gas	<div></div>	33MW
Associated Petroleum Gas	<div></div>	12MW
Biomass And Other Gases	<div></div>	10.8MW
Coal Gas	<div></div>	2.5MW

CLASSIC CASES

■ Application Of Natural Gas



HuangHua International Airport(CHN)

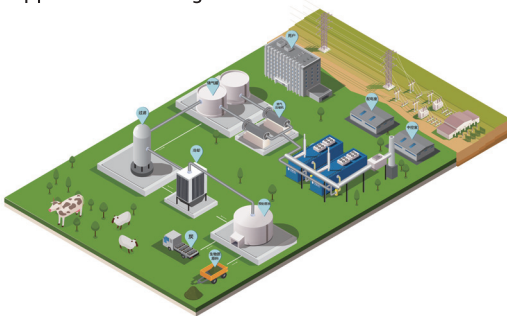
Location: Changsha,Hunan
Installed Engines: 1 x LY1200



Natural Gas

Location: Northern Europe
Installed Engines: 15 xLY2000

■ Application Of Biogas



Bili Dam Landfill(CHN)

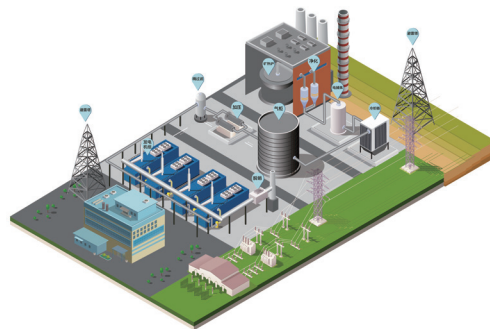
Location: Guiyang,Guizhou
Installed Engines: 7 x LY1600 & 3 x LY1200



Xindi Biogas(CHN)

Location: Foshan, Guangdong
Installed Engines: 2x LY1200 & 5 xLY1600

■ Application Of Industrial Gas



Kohan Ferroalloy(CHN)

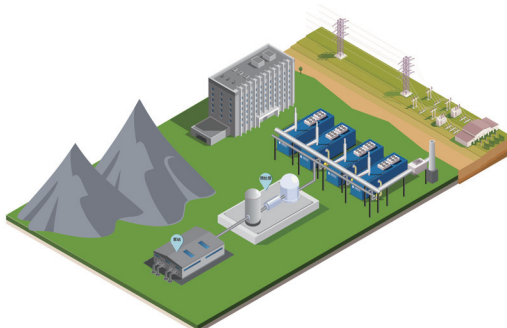
Location: Fengzhen, Inner Mongolia
Installed Engines: 12 x LY1600



Fengyu Ferroalloy(CHN)

Location: Fengzhen, Inner Mongolia
Installed Engines: 22 x LY1600

■ Application Of Coal-bed Methane (Gas)



Shangshe(CHN)

Location: Yangqaun, Shanxi
Installed Engines: 30 x LY1200



Xiaohuigou(CHN)

Location: Qingxu, Shanxi
Installed Engines: 10x LY1200

Headquarters

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