

SYL0270DGJ1



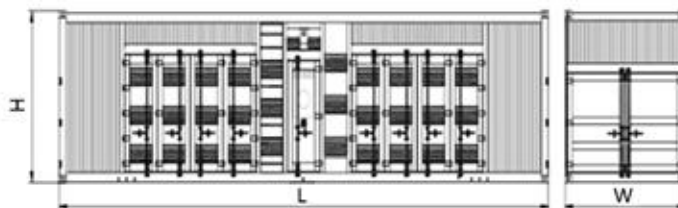
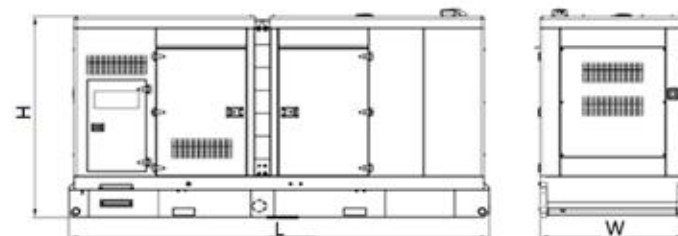
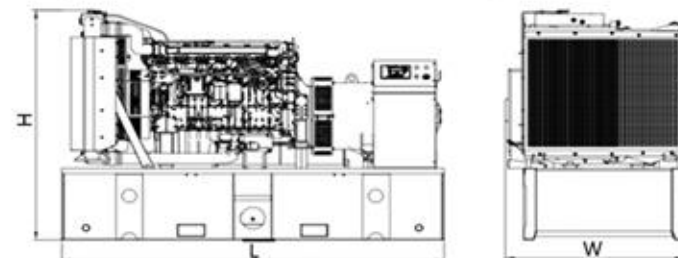
Unit Parameters

Model	SYL0270DGJ1
Frequency (Hz)	50
ESP (kW/kVA)	300/375
Rated Power (kW/kVA)	270/337.5
Rated Voltage (V)	400
Phase	3
Speed Control Type	Electronic speed control



Unit Size and Weight

Length (mm)	4420
Width (mm)	1810
Height (mm)	2318
Net Weight (kg)	5050

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* The above is for reference only, the actual size and weight are subject to the final design drawings.

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Engine

Brand	HUNAN DEUTZ	
Model	N13S3T1	
No. of Cylinders	6	
Displacement (L)	12.94	
Bore × Stroke (mm)	131×160	
Starter Voltage (V)	24	
Fuel	LNG, PNG, Recommended gas composition is shown in the Appendix table.	
Fuel intake pressure	5-7 bar	
Natural Gas Consumption (kg/h)	100% load	64.8
	75% load	49.1
	50% load	35.3
	25% load	20.6



Alternator

Brand	SANY
Model	SYG0270
Mode of connection	Three phases and four lines
Connection type	Y-shaped connection
Exciter system	PMG
Voltage regulator	AVR
Bracket type	Single bearing



Controller

Brand	SANY
Model	SYGCU6110

Generator



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Configurations

“☒” configuration items

Standard configuration

“☐” No configuration items

Optional configuration

☐ Engine	☐ Fuel-water separator	☐ Pre-lubrication system
	☒ Water jacket heater	☐ Inlet air shutdown valve
	☐ Engine oil heater	☐ Gas start system
	☐ Heavy-duty air cleaner	
☒ Alternator	☒ Permanent magnet generator	☐ Stator temperature sensor
	☐ Digital voltage regulator	☐ Bearing temperature sensor
	☐ Anti-condensation heater	☐ Differential protection
☒ Single-machine control	☐ Parallel control	☐ Redundancy control
	☐ Grid-connected control	☐ Remote monitoring system
☐ 40℃ Radiator	☒ 50℃ Radiator	☐ Customized radiator
☒ Unit integrated output	☐ Individual output cabinet	
☒ Battery negative switch	☒ Battery charger	
☒ Maintenance-free lead-acid battery and cable		
☒ Industrial muffler	☐ Residential muffler	☐ Fire extinguishing muffler
☒ No fuel tank	☐ Chassis tank	☐ Daily-use fuel tank
☒ Rubber damper	☐ Spring bumper	
☒ Steel chassis	☒ Silent box type noise reduction box	☐ Container type noise reduction box
	☐ Tool kit	

*Special instructions:

The Rated power is the maximum power that a unit can operate continuously with variable load under standard environmental conditions, and is allowed to operate at an overload of 10% for 1 hour every 12 hours.
ESP refers to the maximum power that a generator set can operate continuously at variable loads under standard working conditions. The power of the generator set has been adjusted to its maximum, therefore overloading operation is not allowed.

*Operating conditions and power correction:

Altitude: $\leq 1000\text{m}$ (power correction required when $>1000\text{m}$).
Environmental temperature: 40 ℃ (Rated power correction required when $>40\text{℃}$, ESP power correction required when $>25\text{℃}$).
Relative humidity: $\leq 60\%$.
Land use.
Fixed on the ground during power supply to prevent movement.
When the operating conditions of the generator set do not meet the above conditions, the generator set needs to meet user needs through optional configurations, and the rated power value of the generator set needs to be corrected under high altitude and high temperature conditions.

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Appendix table

Serial number	Natural gas composition		Unit	Proportion
1	Oxygen	O ₂	%	0.06
2	Nitrogen	N ₂	%	1.11
3	Hydrogen	H ₂	%	0.06
4	Carbon Monoxide	CO	%	<0.01
5	Carbon Dioxide	CO ₂	%	0.72
6	Methane	CH ₄	%	95.18
7	Ethane	C ₂ H ₆	%	2.21
8	Propane	C ₃ H ₈	%	0.46
9	i-Butane	i-C ₄ H ₁₀	%	0.07
10	n-Butane	n-C ₅ H ₁₂	%	0.08
11	i-Pentane	i-C ₅ H ₁₂	%	0.01
12	n-Pentane	n-C ₅ H ₁₂	%	0.01
13	Ethylene	C ₂ H ₄	%	0
14	Propylene	C ₃ H ₆	%	0
15	Gas pressure		bar	5-7
16	Density		kg/m ³	0.7158
17	Relative Density		-	0.5943
18	Hydrogen Sulfide		kg/m ³	<0.5
19	Total Sulfur		kg/m ³	2.1