SYL0500DGJ1

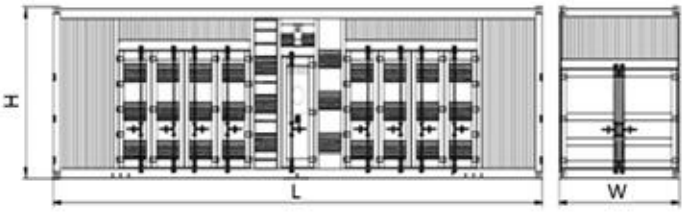
Unit Parameters

Model	SYL0500DGJ1
Frequency (Hz)	50
ESP (kW/kVA)	550/687.5
Rated Power (kW/kVA)	500/625
Rated Voltage (V)	400
Phase	3
Speed Control Type	Electronic speed control

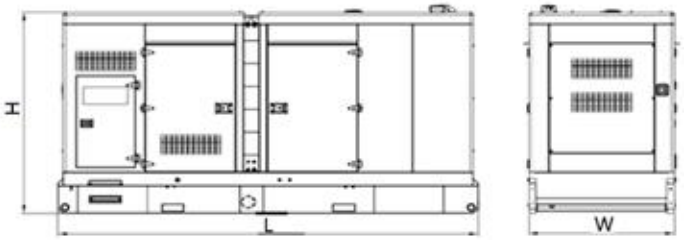
Unit Size and Weight

Length (mm)	6058
Width (mm)	2438
Height (mm)	2896
Net Weight (kg)	14500

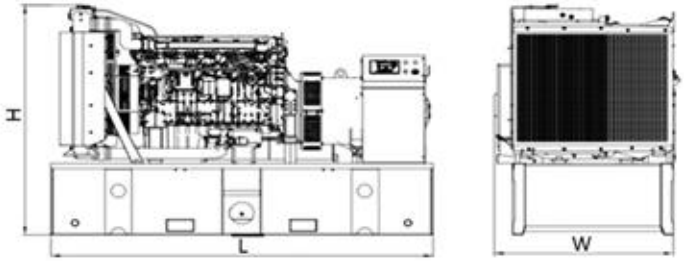
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* The above is for reference only, the actual size and weight are subject to the final design drawings.

SANY

SYLO500DGJ1

Engine

Brand		HUNAN DEUTZ
Model		N13S3T1(2 sets)
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	120.0
	75% load	91.0
	50% load	65.4
	25% load	38.2

Alternator

Brand	SANY
Model	SYG0250(2 sets)
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	DEIF
Model	AGC150(EXTEND)

Generator



SANY

SYL0500DGJ1

Configurations

“☑” configuration items	“☐” No configuration items	
Standard configuration	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 ☑Maintenance-free lead-acid battery and cable	☑Battery charger	
☑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: ≤ 1000m (power correction required when＞1000m).

Environmental temperature: 40 ℃ (Rated power correction required when ＞40 ℃, ESP power correction required when ＞25 ℃).

Relative humidity: ≤ 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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SYL0500DGJ1

Appendix table

Serial number	Natural gas composition		Unit	Proportion
1	Oxygen	O2	%	0.06
2	Nitrogen	N2	%	1.11
3	Hydrogen	H2	%	0.06
4	Carbon Monoxide	CO	%	<0.01
5	Carbon Dioxide	CO2	%	0.72
6	Methane	CH4	%	95.18
7	Ethane	C2H6	%	2.21
8	Propane	C3H8	%	0.46
9	i-Butane	i-C4H10	%	0.07
10	n-Butane	n-C5H12	%	0.08
11	i-Pentane	i-C5H12	%	0.01
12	n-Pentane	n-C5H12	%	0.01
13	Ethylene	C2H4	%	0
14	Propylene	C3H6	%	0
15	Gas pressure		bar	5-7
16	Density		kg/m3	0.7158
17	Relative Density		-	0.5943
18	Hydrogen Sulfide		kg/m3	<0.5
19	Total Sulfur		kg/m3	2.1