

DATA SHEET

NATURAL GAS GENSET

260 kW Model

50Hz / 1500rpm



General Features:

All qualified generator sets are subjected to a comprehensive performance test which includes 50% load, 70% load, 100% load, and to check, verify that all control systems, alarm and shut-down protection.

Equipped with battery charger and 24V high performance maintenance-free lead-acid starting batteries and connecting cables.

Stainless galvanized zinc plates with strong corrosion-proof.

Vibration isolators between the engine/alternator and base frame.

Equipped with industrial silencer and flexible exhaust hose.

Designed to comply with GB/T 19001-2016 idt ISO9001 : 2015

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Generator Set Specifications

Genset Model	260GFT
Rated Power	260kW / 325kVA
Output Frequency / Rated speed	50Hz / 1500rpm
Rated Voltage	230/400V
Power factor	Lag 0.8
Insulation class	H
Protection class	IP23
No Load Voltage Range	95% - 105%
Stable voltage regulation rate	$\leq \pm 1\%$
Instantaneous voltage regulation rate	$\leq -15\% \text{ --- } +20\%$
Voltage recover time	$\leq 3s$
Voltage fluctuation rate	$\leq \pm 0.5\%$
Instantaneous frequency regulation rate	$\leq \pm 10\%$
Frequency stabilization time	$\leq 5s$
Line-voltage waveform Sinusoidal distortion rate	$\leq 2.5\%$
Net weight	3550 kg
Dimension (L*W*H)	3350*1400*2200 mm

(1) Rated voltage: Available with customer requirement.

(2) Dimensions are provided for reference only and should not be used for planning installation.

Engine Specifications

Engine model	NY163D28TL
Rated power	280kW
Rated speed	1500rpm
Engine type	Water cooling, electronic ignition(ECU); Lean burn, turbocharged and intercooled; Woodward E3 electric loop control
Cylinder quantity	6
Cylinder Arrangement	In-line
Cycle	4-stroke
Bore / Stroke	145*165 mm
Displacement	16.3 L
Mean effective pressure	13.7 bar
Piston Speed	8.3 m/s
Lubrication oil consumption	0.5 g/kW.h
Gas intake pressure	2kPa~50kPa
Engine water temperature	75℃~85℃ (during steady running)
Exhaust gas temperature	550 ℃ (after turbocharging)

Alternator Specifications

Alternator model	jcN4E
Alternator manufacturer	Stamford
Exciter type	Single bearing, Brushless, Self-excited
Rated power	250 kW
Rated speed	1500 rpm
Rated frequency	50 Hz
Phase / wire	3P / 4W
Rated voltage	230/400V (Available with custom requirements)
Power factor	0.8
Voltage regulation NL-FL	$\leq \pm 1\%$
Insulation grade	H
Protection grade	IP23

Control System Specifications

Control cabinet model	260KZY, javac brand	
Controller model	DSE6120, Deepsea brand	
Display language	English,Spanish etc.	
Main Protection Functions	Fail to start	Over speed
	Low engine OP	High engine temperature
	Low frequency	High frequency
	Low voltage	High voltage
Main Displayed Parameter	L-L&L-N voltage	Speed &running hrs
	load current	Engine oil temperature
	Frequency	Engine oil pressure
	Load power	Coolant temperature

Communication with PC via RS485 interface, using MODBUS protocol.

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Soundproof Enclosure Specification (If it is requested)

NPT silent generator sets are designed by professional acoustic engineers based on years of experience. Now we can make the noise of the generator set less than 80-85dB(A) at 1m, or 70-75dB(A) at 7m, 60-65dB(A) at 15m. Sound levels are taken from the front of the generator. Sound levels taken From other sides of the generator may be higher depending on installation parameters.

FEATURES:

Multi-way air intake and exhaust guarantee the power performance of the generator set;

Large-scale impedance combined type silencer effectively reduce noise of the generator;

Internal high performance rubber damper and flexible materials reduce vibration;

Integrated control panel with easy access;

Side doors;

Anti-corrosion treatment.

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Main Supply scope

Engine assembly	Alternator	Control panel
DC 24 V battery	Muffler	Flame arrestor
Ignition system	Gas supply system	Tool kit
Common base	Cooling system	Spare parts

PS: The requirements of other specially configured equipment besides the above supply scope need to be explained in advance so that we can consider whether it can be provided.

Other Related Information

1 >> About gases

Natural gas : LHV should be above 31.4MJ/m³

Biogas : LHV should be above 21MJ/m³

Syngas : LHV should be above 5MJ/m³

Gas temperature $\leq 40^{\circ}\text{C}$

H₂S $\leq 20\text{mg/Nm}^3$

NH₃ $\leq 20\text{mg/Nm}^3$

Tar content $\leq 20\text{mg/Nm}^3$

Impurities particle size $\leq 5\text{ }\mu\text{m}$

Impurity content $\leq 30\text{mg/Nm}^3$

No free water

2 >> Lube oil

15W/40 oil when the environment temperature is above -15°C ;

5W/30 when it is below -15°C .

Better use lube oil special for gas engine due to gas engine rigorous lubrication.

Lube oil brands recommendation: Shell, Mynella S5N40, S3S40 etc.

3 >> Coolant

Coolant of gas engine should be soft water and with anticorrosive agent and long effect Anti-freeze

4 >> Genset User should Prepare

①gas inlet pipe ②connecting pipes for exhaust gas ③lube oil ④coolant water

⑤power output cables ⑥external circulating water pipe.