

# GAS

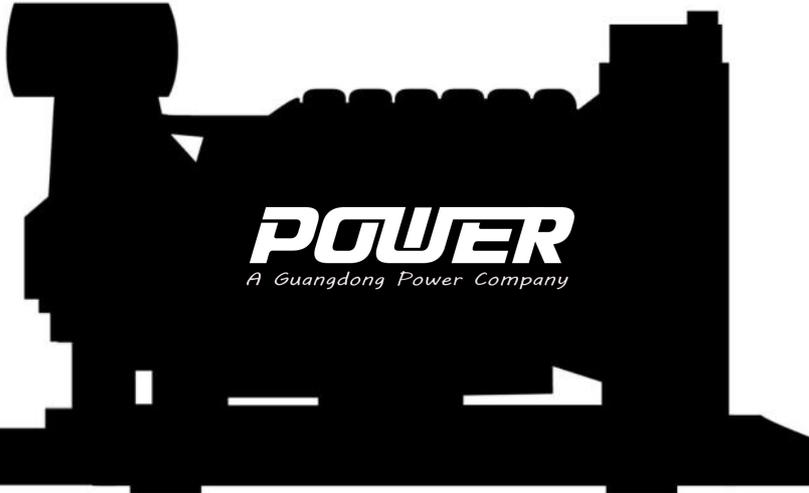
CONTINUOUS POWER

**POWER**  
A Guangdong Power Company

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# Gas Generator Set

## Model: G250NG



SERVICE		PRP	ESP
POWER	kVA	250	275
POWER	kW	200	220
RATED SPEED	r.p.m.	1.500	
STANDARD VOLTAGE	V	400/230	
AVAILABLE VOLTAGES	V	230/132 · 230 V (t)	
RATED AT POWER FACTOR	Cos Phi	0,8	



### INDUSTRIAL RANGE

Guangdong Power Company with quality certification ISO 9001  
 Guangdong gensets are compliant with EC mark which includes the following directives:

- 2006/42/CE Machinery safety.
- 2014/30/UE Electromagnetic compatibility.
- 2014/35/UE electrical equipment designed for use within certain voltage limits
- 2000/14/EC Sound Power level. Noise emissions outdoor equipment. (amended by 2005/88/EC)
- 97/68/EC Emissions of gaseous and particulate pollutants. (amended by 2012/46/EU)
- EN 12100, EN 13857, EN 60204

Ambient conditions of reference according to ISO 8528-1:2018 normative: 1000 mbar, 25°C, 30% relative humidity.

Prime Power (PRP):  
 According to ISO 8528-1:2018, Prime power is the maximum power which a generating set is capable of delivering continuously whilst supplying a variable electrical load when operated for an unlimited number of hours per year under the agreed operating conditions with the maintenance intervals and procedures being carried out as prescribed by the manufacturer. The permissible average power output (Ppp) over 24 h of operation shall not exceed 70 % of the PRP.

Emergency Standby Power (ESP):  
 According to ISO 8528-1:2018, Emergency standby power is the maximum power available during a variable electrical power sequence, under the stated operating conditions, for which a generating set is capable of delivering in the event of a utility power outage or under test conditions for up to 200 h of operation per year with the maintenance intervals and procedures being carried out as prescribed by the manufacturers. The permissible average power output over 24 h of operation shall not exceed 70 % of the ESP

Continuous Power (COP): According to Standard ISO 8528-1:2018, this is the maximum power available for continuous loads for unlimited running hours a year between the maintenance times recommended by the manufacturer under the environmental conditions established by the same.

G2 class load acceptance in accordance with ISO 8528-5:2018



### OPEN SKID

-  OPEN SKID
-  WATER-COOLED
-  THREE PHASE
-  50 Hz
-  NOT AVAILABLE
-  NATURAL GAS

# Gas Generator Set

## Model: G250NG



### Engine Specifications | 1.500 r.p.m.

Rated Output (PRP)	kW	218,3
Rated Output (ESP)	kW	243,3
Manufacturer	Guangdong Power	
Model	G250NG	
Engine Type	4-stroke Otto Cycle	
Injection Type	Carburization	
Aspiration Type	Turbocharged and after-cooled	
Number of cylinders and arrangement	8-V	
Bore and Stroke	mm	128 x 142
Displacement	L	14,6
Cooling System	Coolant	
Lube Oil Specifications	API CD/≥CF, SAE 15W40	
Compression Ratio	10,5 : 1	

Fuel Consumption ESP	Nm <sup>3</sup> /h	75,7
Fuel Consumption 100% PRP	Nm <sup>3</sup> /h	68,7
Fuel Consumption 75 % PRP	Nm <sup>3</sup> /h	54,1
Fuel Consumption 50 % PRP	Nm <sup>3</sup> /h	38,2
Fuel Consumption 25 % PRP	Nm <sup>3</sup> /h	21,5
Total oil capacity including tubes, filters	L	38,1
Total coolant capacity	L	127
Heat dissipated by coolant	kW	230
Governor	Type	Electrical
Air Filter	Type	Dry

- Natural Gas engine
- 4-stroke cycle
- Water-cooled
- 24V electrical system
- Dry air filter
- Radiator with pusher fan
- HTW sender
- LOP sender
- Electronic governor
- Hot parts protection
- Moving parts protection



### Generator Specifications | STAMFORD

Manufacturer	STAMFORD	
Model	S4L1D.D41	
Poles	No.	4
Connection type (standard)	Star-series	
Mounting type	S-1 14"	
Insulation	Class	H class

Enclosure (according IEC-34-5)	IP23
Exciter system	Self-excited, brushless
Voltage regulator	A.V.R. (Electronic)
Bracket type	Single bearing
Coupling system	Flexible disc
Coating type	Standard (Vacuum impregnation)

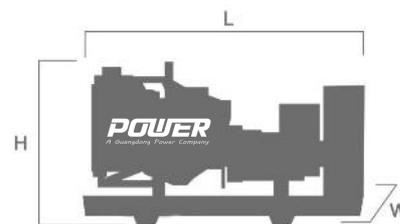
- Self-excited and self-regulated
- 4 poles
- AVR governor
- IP23 protection
- H class insulation
- Single drive-shaft
- Flexible disc coupling

# Gas Generator Set

## Model: G250NG

### WEIGHT AND DIMENSIONS

Standard Version		
Length (L)	mm	3.610
Height (H)	mm	1.929
Width (W)	mm	1.651
Maximum shipping volume	m <sup>3</sup>	11,5
Weight with liquids in radiator and sump	Kg	3451
Autonomy	Hours	Ask



### APPLICATION DATA

#### EXHAUST SYSTEM

Maximum exhaust temperature	°C	750
Exhaust Gas Flow	m <sup>3</sup> /min	45,2
Maximum allowed back pressure	kPa	10,2

#### NECESSARY AMOUNT OF AIR

Intake air flow	m <sup>3</sup> /h	840
Alternator fan air flow	m <sup>3</sup> /s	0,83

#### STARTING SYSTEM

Starting power	kW	7
Starting power	CV	9,52
Recommended battery	Ah	200
Auxiliary Voltage	Vdc	24

#### FUEL SYSTEM

Fuel Oil Specifications		Natural Gas
Lower heating value (LHV)	kWh/Nm <sup>3</sup>	9,85
Composition *		95% Methane
Fuel supply connection size	Inches	2
Fuel supply pressure	mbar	70 - 300

# Gas Generator Set

## Model: G250NG



### Open set version

- Steel chassis
- Emergency stop button
- Oil sump extraction kit
- Anti-vibration shock absorbers
- Steel industrial silencer -15db(A) attenuation
- Steel residential silencer -35db(A) attenuation. (Opcional).



### Gas ramp

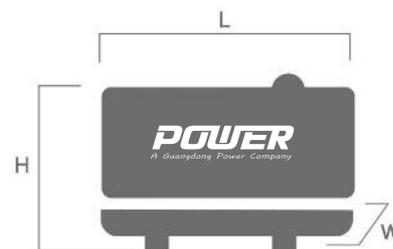
- Manual shut-off valve
- Gas filter
- Double solenoid valve
- Primary pressure regulator
- Secondary pressure regulator (Zero pressure regulator)
- Low pressure switch
- Valve (tightness) testing system
- Inlet pressure manometer
- Outlet pressure manometer
- Special Start/Stop sequence
- High pressure regulator (Opcional).
- High pressure switch (Opcional).

# Gas Generator Set

## Model: G250NG

### WEIGHT AND DIMENSIONS

Standard Version		
Length (L)	mm	5.000
Height (H)	mm	2.369
Width (W)	mm	2.100
Maximum shipping volume	m <sup>3</sup>	24,87
Weight with liquids in radiator and sump	Kg	5191
Autonomy	Hours	Ask



### SOUND PRESSURE

Sound pressure level	dB(A)@7m	70 ± 2,4
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### APPLICATION DATA

#### EXHAUST SYSTEM

Maximum exhaust temperature	°C	750
Exhaust Gas Flow	m <sup>3</sup> /min	45,2
Maximum allowed back pressure	kPa	10,2
Exhaust Flange Size (external diameter)	mm	200

#### NECESSARY AMOUNT OF AIR

Intake air flow	m <sup>3</sup> /h	840
Alternator fan air flow	m <sup>3</sup> /s	0,83

#### STARTING SYSTEM

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Composition *	95% Methane	
Fuel supply connection size	Inches	2
Fuel supply pressure	mbar	70 - 300

# Gas Generator Set

## Model: G250NG



### Soundproofed version

- Steel chassis
- Anti-vibration shock absorbers
- External emergency stop switch
- Bodywork made from high quality steel plate
- High mechanical strength
- Low noise emissions level
- Soundproofing provided by high-density volcanic rock wool
- Epoxy polyester powder coating
- Full access for maintenance (water, oil and filters, no need to remove the canopy)
- Reinforced lifting hooks for crane hoisting
- Watertight chassis (acts as a double barrier against liquid retention)
- Chassis drain plug
- Steel residential silencer -35db(A) attenuation.
- Oil sump extraction kit
- IP Protection according to ISO 8528-13:2016



### Gas ramp

- Manual shut-off valve
- Gas filter
- Double solenoid valve
- Primary pressure regulator
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- Low pressure switch
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- Inlet pressure manometer
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- Special Start/Stop sequence
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