

# GAS

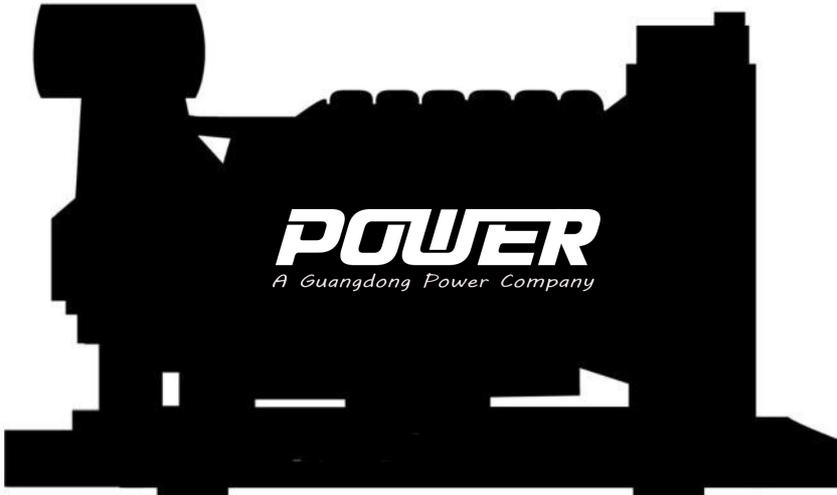
CONTINUOUS POWER

**POWER**  
A Guangdong Power Company

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# Gas Generator Set

## Model: G500NG



SERVICE		PRP	ESP
POWER	kVA	500	550
POWER	kW	400	440
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 8528-5:2013



### OPEN SKID



OPEN SKID



WATER-COOLED



THREE PHASE



50 HZ



NOT AVAILABLE



NATURAL GAS

# Gas Generator Set

## Model: G500NG



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

Rated Output (PRP)	kW	433
Rated Output (ESP)	kW	523
Manufacturer	Guangdong Power	
Model	G500NG	
Engine Type	4-stroke Otto Cycle	
Injection Type	Carburization	
Aspiration Type	Turbocharged and after-cooled	
Number of cylinders and arrangement	12-V	
Bore and Stroke	mm	150 x 150
Displacement	L	31,8
Cooling System	Liquid (water + 50% glycol)	
Lube Oil Specifications	API CD/≥CF, SAE 15W40	
Compression Ratio	10,5:1	

Fuel Consumption ESP	Nm3/h	160,2
Fuel Consumption 100% PRP	Nm3/h	137,3
Fuel Consumption 75 % PRP	Nm3/h	107,2
Fuel Consumption 50 % PRP	Nm3/h	80,7
Fuel Consumption 25 % PRP	Nm3/h	49,4
Total oil capacity	L	112
Total coolant capacity	L	176,2
Heat dissipated by coolant	kW	477
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	HCI544E	
Poles	No.	4
Connection type (standard)	Star-series	
Mounting type	S-0 18''	
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)

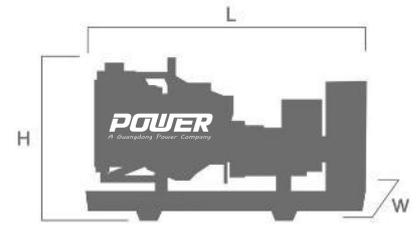
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- Self-excited and self-regulated
  - 4 poles
  - IP23 protection
  - H class insulation

# Gas Generator Set

## Model: G500NG

### WEIGHT AND DIMENSIONS

Standard Version		
Length (L)	mm	4.460
Height (H)	mm	2.670
Width (W)	mm	2.100
Maximum shipping volume	m <sup>3</sup>	25,01
Weight with liquids in radiator and sump	Kg	6281
Autonomy	Hours	Ask



### APPLICATION DATA

#### EXHAUST SYSTEM

Maximum exhaust temperature	°C	581
Exhaust Gas Flow	m <sup>3</sup> /min	90
Maximum allowed back pressure	kPa	10,2
Heat dissipated by exhaust pipe	kW	328

#### STARTING SYSTEM

Starting power	kW	11,7
Starting power	CV	15,91
Auxiliary Voltage	Vdc	24

#### NECESSARY AMOUNT OF AIR

Intake air flow	m <sup>3</sup> /h	1680
Cooling Air Flow	m <sup>3</sup> /s	25,58
Alternator fan air flow	m <sup>3</sup> /s	1,035

#### FUEL SYSTEM

Fuel Oil Specifications	Natural Gas	
Lower heating value (LHV)	kWh/Nm <sup>3</sup>	9,853
Composition *	95% Methane	
Fuel supply connection size	Inches	3
Fuel supply pressure	mbar	17 - 27

# Gas Generator Set

## Model: G500NG



### Open set version

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



### Gas ramp

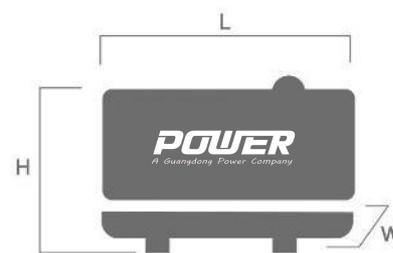
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|--|--|--|
| <ul style="list-style-type: none"><li>• Manual shut-off valve</li><li>• Gas filter</li><li>• Double solenoid valve</li><li>• High pressure regulator</li></ul> | <ul style="list-style-type: none"><li>• Primary pressure regulator</li><li>• Low pressure switch</li><li>• High pressure switch</li><li>• Valve (tightness) testing system</li></ul> | <ul style="list-style-type: none"><li>• Inlet pressure manometer</li><li>• Outlet pressure manometer</li><li>• Special Start/Stop sequence</li></ul> |
|--|--|--|

# Gas Generator Set

## Model: G500NG

### WEIGHT AND DIMENSIONS

Standard Version		
Length (L)	mm	5.960
Height (H)	mm	2.856
Width (W)	mm	2.622
Maximum shipping volume	m <sup>3</sup>	44,63
Weight with liquids in radiator and sump	Kg	9323
Autonomy	Hours	Ask



### APPLICATION DATA

#### EXHAUST SYSTEM

Maximum exhaust temperature	°C	581
Exhaust Gas Flow	m <sup>3</sup> /min	90
Maximum allowed back pressure	kPa	10,2
Exhaust Flange Size (external diameter)	mm	200
Heat dissipated by exhaust pipe	kW	328

#### STARTING SYSTEM

Starting power	kW	11,7
Starting power	CV	15,91
Auxiliary Voltage	Vdc	24

#### NECESSARY AMOUNT OF AIR

Intake air flow	m <sup>3</sup> /h	1680
Cooling Air Flow	m <sup>3</sup> /s	25,58
Alternator fan air flow	m <sup>3</sup> /s	0,9

#### FUEL SYSTEM

Fuel Oil Specifications		Natural Gas
Lower heating value (LHV)	kWh/Nm <sup>3</sup>	9,853
Composition *		95% Methane
Fuel supply connection size	Inches	3
Fuel supply pressure	mbar	17 - 27

# Gas Generator Set

## Model: G500NG



### 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
- High pressure regulator
- Primary pressure regulator
- Low pressure switch
- High pressure switch
- Valve (tightness) testing system
- Inlet pressure manometer
- Outlet pressure manometer
- Special Start/Stop sequence