

NATURAL GAS | LPG | BIOGAS

GAS

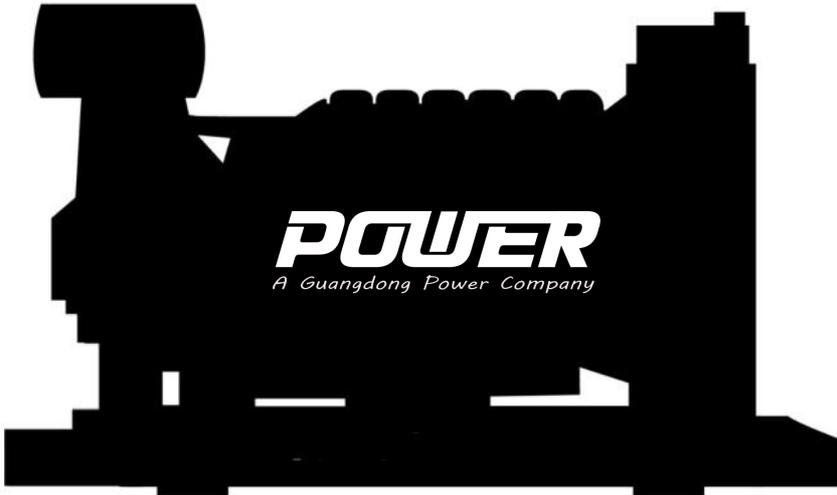
CONTINUOUS POWER

POWER
A Guangdong Power Company

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Gas Generator Set

Model: G25NG



SERVICE		PRP	ESP
POWER	kVA	25	27
POWER	kW	20	21
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

-  MG3
-  WATER-COOLED
-  THREE PHASE
-  50 HZ
-  NOT AVAILABLE
-  NATURAL GAS

Manufacturer has the right to modify any feature without prior notice.
 Weights and dimensions based on standard products. Illustrations may include optional equipment.
 Technical data described in this catalogue correspond to the available information at the moment of printing.
 The illustrations and images are indicative and may not coincide in their entirety with the product.
 Industrial design under patent.

Gas Generator Set

Model: G25NG



Engine Specifications | 1.500 r.p.m.

Rated Output (PRP)	kW	22,6
Rated Output (ESP)	kW	24,8
Manufacturer	Guangdong Power	
Model	G25NG	
Engine Type	4-stroke Otto Cycle	
Injection Type	Carburization	
Aspiration Type	Natural	
Number of cylinders and arrangement	4-L	
Bore and Stroke	mm	89 x 100
Displacement	L	2,5
Cooling System	Coolant	
Lube Oil Specifications	API SJ/SH, SAE 5W-20	
Compression Ratio	9,7:1	

Fuel Consumption 100% PRP	Nm ³ /h	7,2
Total oil capacity including tubes, filters	L	6,3
Heat dissipated by coolant	kW	25,2
Governor	Type	Electrical
Air Filter	Type	Dry

- Natural Gas engine
- 4-stroke cycle
- Water-cooled
- 12V electrical system
- Dry air filter
- Radiator with pusher fan
- HTW sender
- LOP sender
- Electronic governor
- Hot parts protection
- Moving parts protection



Generator Specifications | MECC ALTE

Manufacturer	MECC ALTE	
Model	ECP28 2L/4 A	
Poles	No.	4
Connection type (standard)	Star-series	
Mounting type	S-4 10"	
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)

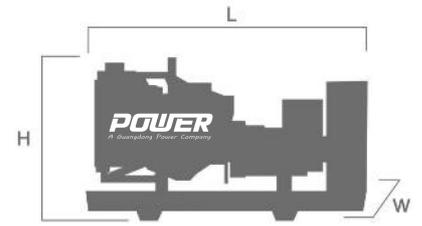
- Self-excited and self-regulated
- AVR governor
- IP23 protection
- H class insulation

Gas Generator Set

Model: G25NG

WEIGHT AND DIMENSIONS

Standard Version		
Length (L)	mm	1.750
Height (H)	mm	1.487
Width (W)	mm	900
Maximum shipping volume	m ³	2,34
Weight with liquids in radiator and sump	Kg	570
Autonomy	Hours	Ask



APPLICATION DATA

EXHAUST SYSTEM

Exhaust Gas Flow	m ³ /min	4,9
Maximum allowed back pressure	kPa	20,32

NECESSARY AMOUNT OF AIR

Intake air flow	m ³ /h	297,3
Cooling Air Flow	m ³ /s	1,2
Alternator fan air flow	m ³ /s	0,088

STARTING SYSTEM

Recommended battery	Ah	95
Auxiliary Voltage	Vdc	12

FUEL SYSTEM

Fuel Oil Specifications		Natural Gas
Lower heating value (LHV)	kWh/Nm ³	10,87
Composition *		95% Methane
Fuel supply connection size	Inches	1
Fuel supply pressure	mbar	30 - 300

Gas Generator Set

Model: G25NG



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

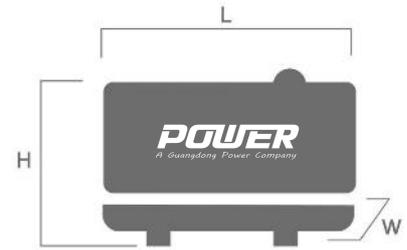
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|--------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none">• Gas filter• Double solenoid valve• High pressure regulator | <ul style="list-style-type: none">• Primary pressure regulator• Low pressure switch• Inlet pressure manometer | <ul style="list-style-type: none">• Outlet pressure manometer• Special Start/Stop sequence• High pressure switch (Opcional). |
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Gas Generator Set

Model: G25NG

WEIGHT AND DIMENSIONS

Standard Version		
Length (L)	mm	2.100
Height (H)	mm	1.350
Width (W)	mm	975
Maximum shipping volume	m ³	2,76
Weight with liquids in radiator and sump	Kg	880
Autonomy	Hours	Ask



SOUND PRESSURE

Sound pressure level	dB(A)@7m	68 ± 2,4
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APPLICATION DATA

EXHAUST SYSTEM

Exhaust Gas Flow	m ³ /min	4,9
Maximum allowed back pressure	kPa	20,32
Exhaust Flange Size (external diameter)	mm	65

STARTING SYSTEM

Recommended battery	Ah	95
Auxiliary Voltage	Vdc	12

NECESSARY AMOUNT OF AIR

Intake air flow	m ³ /h	297,3
Cooling Air Flow	m ³ /s	1,2
Alternator fan air flow	m ³ /s	0,088

FUEL SYSTEM

Fuel Oil Specifications	Natural Gas	
Lower heating value (LHV)	kWh/Nm ³	10,87
Composition *	95% Methane	
Fuel supply connection size	Inches	1
Fuel supply pressure	mbar	30 - 300

Gas Generator Set

Model: G25NG



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
- Chassis drain plug
- Steel residential silencer -35db(A) attenuation.
- IP Protection according to ISO 8528-13:2016



Gas ramp

- Gas filter
- Double solenoid valve
- High pressure regulator
- Primary pressure regulator
- Low pressure switch
- Inlet pressure manometer
- Outlet pressure manometer
- Special Start/Stop sequence
- High pressure switch (Optional).