GAS
CONTINUOUS POWER

POWER
A Guangdong Power Company
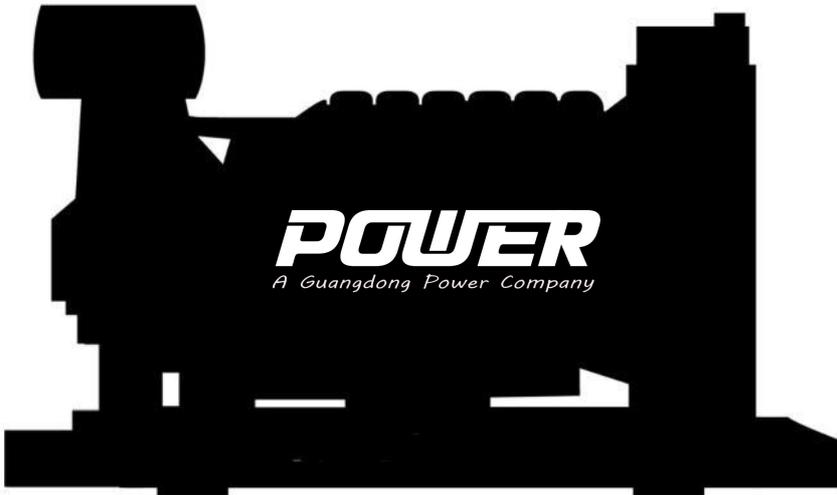
SERVICE		COP	COP
POWER	kVA	609,2	750,5
POWER	kW	609,2	6004
RATED SPEED	r.p.m.	1.500	
MAIN VOLTAGE	V	400/230 V	
AVAILABLE VOLTAGES	V	200/115 · 230 V (t)	
RATED AT POWER FACTOR	Cos Phi	1	0,8

INDUSTRIAL RANGE

Guangdong Power Company with quality certification ISO 9001

Gaungdong 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)
• EN 12100, EN 13857, EN 60204

Ambient conditions of reference according to ISO 8528-1:2018 normative: 1000 mbar, 25ºC, 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.

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.

OPEN SKID

 OPEN SKID

 WATER-COOLED

 THREE PHASE

 50 HZ

 NATURAL GAS

Model: G600NG

Engine Specifications | 1.500 r.p.m.

Rated Engine Output (COP)	kW	630		Fuel Consumption 100% COP	kW	1568
Manufacturer		Guangdong Power		Fuel Consumption 80 % COP	kW	1286
Model		G600NG		Fuel Consumption 75 % COP	kW	1206,06
Engine Type		4-stroke Otto Cycle		Fuel Consumption 50 % COP	kW	865,64
Injection Type		Carburization		Fuel Consumption 25 % COP	kW	508,42
Aspiration Type		Turbocharged		Lube oil consumption with full load	g/kWh	0,35
Number of cylinders and arrangement		12-V		Total oil capacity	L	174
Bore and Stroke	mm	152 x 165		Heat dissipated by coolant	kW	546
Displacement	L	35,9		Governor	Type	Electrical
Cooling System		Water + Antifreeze		Air Filter	Type	Semi-humid
Lube Oil Specifications		SAE 40				
Compression Ratio		11,6				

- Natural Gas engine
- 4-stroke cycle
- Water-cooled

- Radiator with pusher fan
- HTW sender
- LOP sender

- Electronic governor
- Hot parts protection
- Moving parts protection

Generator Specifications | STAMFORD

|					
Manufacturer		STAMFORD		Enclosure (according IEC-34-5)	IP23
Model		HCI634H		Exciter system	Self-excited, brushless
Poles	No.	4		Voltage regulator	A.V.R. (Electronic)
Connection type (standard)		Star-series		Bracket type	Double drive-shaft
Mounting type		S-00 18"		Coupling system	Elastic Coupling
Insulation	Class	H class		Coating type	Standard (Vacuum impregnation)

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

WEIGHT AND DIMENSIONS

		Standard Version
Length (L)	mm	Ask
Height (H)	mm	Ask
Width (W)	mm	Ask
Weight with liquids in radiator and sump		Ask
Autonomy	Hours	Ask
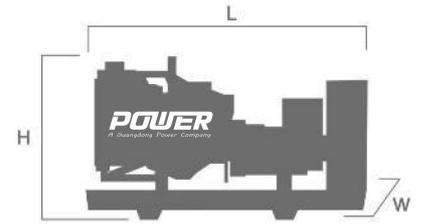
APPLICATION DATA

EXHAUST SYSTEM

Maximum exhaust temperature	ºC	370
Exhaust Gas Flow	kg/s	0,92
Maximum allowed back pressure	mm H2o	450

STARTING SYSTEM

Auxiliary Voltage	Vdc	12

NECESSARY AMOUNT OF AIR

Cooling Air Flow	m³/s	12,25
Alternator fan air flow	m³/s	1,614

FUEL SYSTEM

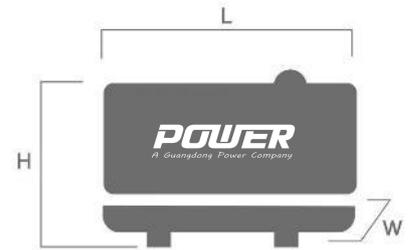| Fuel Oil Specifications		Natural Gas
Composition *		95% Methane
Fuel supply pressure	mbar	50 - 240

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

WEIGHT AND DIMENSIONS

		Standard Version
Length (L)	mm	12.192
Height (H)	mm	2.896
Width (W)	mm	2.438
Maximum shipping volume	m³	86,08
Weight with liquids in radiator and sump	Kg	Ask
Autonomy	Hours	Ask

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Container version

- Soundproofing provided by high-density volcanic rock wool
- High mechanical resistance
- Low level of noise emissions
- Door with window to visualize control panel, alarms and measurements
- Reinforced lifting points for crane hoisting and lower ones for transportation by forklift
- Residential steel silencer with -35dB attenuation and tilting cap in the exhaust

- Anti-vibration shock absorbers
- Steel chassis
- Manual oil extraction pump
- Robust construction designed for continuous or emergency applications
- Stainless steel fittings
- Emergency stops

- Easy access to the power connection
- Reinforced chassis for heavy range
- Easy access for chassis cleaning
- Silent-block with anti-corrosion protection between the genset and the chassis
- Easy access to fill radiator through the roof

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