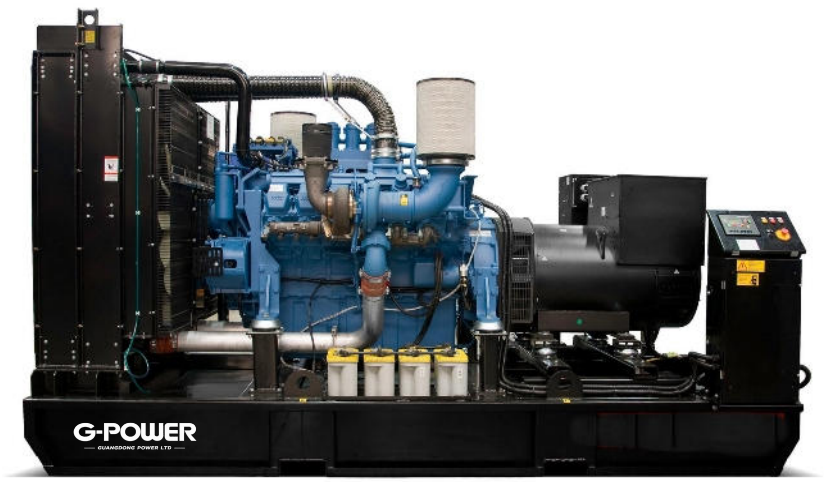
Diesel Generator Set

Model: G625DG



SERVICE		PRP	ESP
POWER	kVA	625	688
POWER	kW	500	550
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 Limited (G-Power) is ISO 9001 certified.

G-Power generator sets are CE compliant and conform to 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, 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.

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

- K9
- WATER-COOLED
- THREE PHASE
- 50 HZ
- NON REQUIRED 97/68
- DIESEL

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Engine Specifications | 1.500 r.p.m.

Rated Output (PRP)	kW	540
Rated Output (ESP)	kW	596
Manufacturer		G Power
Model		STA600
Engine Type		4-stroke diesel
Injection Type		Direct
Aspiration Type		Turbocharged and after-cooled
Number of cylinders and arrangement		10-V
Bore and Stroke	mm	128 x 142
Displacement	L	18,273
Cooling System		Coolant
Lube Oil Specifications		API CH4 SAE 15W40 or 10W40
Compression Ratio		15:1

Fuel Consumption ESP	l/h	149,5
Fuel Consumption 100% PRP	l/h	136,4
Fuel Consumption 75 % PRP	l/h	103,8
Fuel Consumption 50 % PRP	l/h	71,2
Fuel Consumption 25 % PRP	l/h	38,6
Lube oil consumption with full load		0,5 % of fuel consumption
Total oil capacity	L	34
Total coolant capacity	L	91
Heat dissipated by coolant	kW	268
Governor	Type	Electrical
Air Filter	Type	Dry

- Diesel engine
- 4-stroke cycle
- Water-cooled
- 24V electrical system
- Water separator filter (no visible level)
- Dry air filter
- Radiator with pusher fan
- HTW sender
- LOP sender
- Electronic governor
- Hot parts protection
- Moving parts protection
- Radiator water level sensor (Opcional).

Generator Specifications | STAMFORD

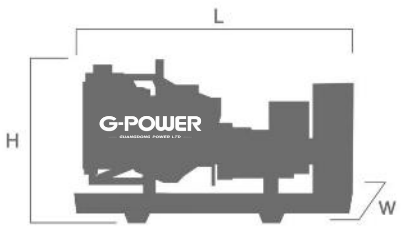
Manufacturer		STAMFORD
Model		HCI544F
Poles	No.	4
Connection type (standard)		Star-series
Mounting type		S-1 14"
Insulation	Class	H class

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
- IP23 protection
- H class insulation

WEIGHT AND DIMENSIONS

		Standard Version
Length (L)	mm	3.600
Height (H)	mm	2.054
Width (W)	mm	1.460
Maximum shipping volume	m³	10,8
Weight with liquids in radiator and sump	Kg	3783
Fuel tank capacity	L	740
Autonomy	Hours	7



APPLICATION DATA

EXHAUST SYSTEM

Maximum exhaust temperature	ºC	587
Exhaust Gas Flow	m³/min	118
Maximum allowed back pressure	kPa	5,9
Heat dissipated by exhaust pipe	kW	561

NECESSARY AMOUNT OF AIR

Intake air flow	m³/h	2160
Cooling Air Flow	m³/s	11,67
Alternator fan air flow	m³/s	1,035

STARTING SYSTEM

Starting power	kW	7
Starting power	CV	9,52
Recommended battery	Ah	200 x 2
Auxiliary Voltage	Vdc	24

FUEL SYSTEM

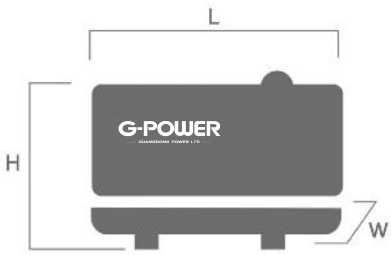
Fuel Oil Specifications		Diesel
Maximum power suction pump	mm Hg	225
Maximum return feed pump	mm Hg	450
Fuel Tank	L	740

Open set version

- Steel chassis
- Emergency stop button
- Anti-vibration shock absorbers
- Chassis with integrated fuel tank
- Fuel level gauge
- Fuel tank drain plug
- Steel industrial silencer -15db(A) attenuation
- Fuel transfer pump (Opcional).
- Steel residential silencer -35db(A) attenuation. (Opcional).

WEIGHT AND DIMENSIONS

		Standard Version	High Capacity version
Length (L)	mm	4.500	4.500
Height (H)	mm	2.340	2.740
Width (W)	mm	1.800	1.800
Maximum shipping volume	m³	18,95	22,19
Weight with liquids in radiator and sump	Kg	5493	6104
Fuel tank capacity	L	740	2090
Autonomy	Hours	7	20
		Steel tank	Steel tank



SOUND PRESSURE

Sound pressure level	dB(A)@7m	80 ± 2,4

APPLICATION DATA

EXHAUST SYSTEM

Maximum exhaust temperature	ºC	587
Exhaust Gas Flow	m³/min	118
Maximum allowed back pressure	kPa	5,9
Exhaust Flange Size (external diameter)	mm	160
Heat dissipated by exhaust pipe	kW	561

NECESSARY AMOUNT OF AIR

Intake air flow	m³/h	2160
Cooling Air Flow	m³/s	11,67
Alternator fan air flow	m³/s	1,035

STARTING SYSTEM

Starting power	kW	7
Starting power	CV	9,52
Recommended battery	Ah	200 x 2
Auxiliary Voltage	Vdc	24

FUEL SYSTEM

Fuel Oil Specifications		Diesel
Maximum power suction pump	mm Hg	225
Maximum return feed pump	mm Hg	450
Fuel Tank	L	740
Other fuel tank capacities	L	2.090

Soundproofed version

- Steel chassis
- Anti-vibration shock absorbers
- Chassis with integrated fuel tank
- Fuel level gauge
- 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)
- Fuel tank drain plug
- Chassis drain plug
- Chassis ready for future mobile kit installation
- Steel residential silencer -35db(A) attenuation.
- Oil sump extraction kit
- Versatility to assemble a high capacity chassis with a metallic fuel tank
- IP Protection according to ISO 8528-13:2016
- 3 way valve for external fuel supply (available in 1/2" and 3/8" fittings) (Opcional).
- Fuel transfer pump (Opcional).