

## Datasheet

### HGM1375SG/6 Googol Diesel Power Generator

**1000kW-1250kVA  
1100kW-1375kVA  
60Hz**

Googol diesel generators are powered by Googol engines which are being manufactured by latest US based technology. Googol engines are known for cost effective reliable power solution.

#### Features

Googol power generators are designed to operate under extreme conditions with low operational and maintenance cost.

Honny power manufacture and test it's products under strict QC rules to insure international manufacturing standard.



#### Equipment

Engine and alternator mounted on same frame steel skid.  
Build in damper for anti-vibration.  
Compact design, easy to operate and maintain.  
Sino-US Googol brand engine  
Top brand AC alternator  
Full range protections, alarms with auto shutdown features.  
Comply with ISO8628 national standard and ISO9001 quality standard. Specially designed horizontal/vertical, engine driven/electrical radiator. Industrial, Residential silencers  
Catalytic converters  
Heat exchangers  
Special spark arrester silencers  
Standard set for "CE" certification  
Sound & Weatherproof canopy optional  
Spring, seismic anti-vibration mounts  
Advanced facility for FAT.

## Diesel Generator Specification

<b>Genset Model</b>		HGM1375SG/6
Genset Prime Output	kW/kVA	1000/1250
Genset Standby Output	kW/kVA	1100/1375
Rating Power Factor		0.8
Rating Speed	rpm	1200
Rating Frequency	Hz	60
Rating Voltage	V	480
<b>Engine Model</b>		QTA3240-SG2
Displacement	l	53.1
Configuration		12V
Genset Size-Open Type (LxWxH)	mm	5700x2220x2800
Genset Weight	kg	10800

## Engine Data in General

Aspiration Type		Turbocharger, air-water aftercooler
Injection Type		Direct Injection
Configuration		Vee
No. of Cylinders		12
Displacement	l	53.1
Bore	mm	170
Stroke	mm	195
Compression Ratio		13.5:1
Piston Speed	m/s	7.8
Rotation Direction (from Flywheel)		Counter Clockwise
Number of Flywheel Teeth		218
Flywheel House Size		SAE00-21

## Engine Specification

<b>Engine Model</b>		QTA3240-SG2
Speed	rpm	1200
Standby Output (LTP)	kW	1221
Prime Output (PRP)	kW	1110
Engine Continuous Power (COP)	kW	1000
Fan Quantity		1
All Fans Reduction	kW	46
Engine Net Standby Output (LTP)	kW	1175
Engine Net Prime Output (PRP)	kW	1064
Engine Net Continuous Output (COP)	kW	954
BMEP for Standby Output	bar	22.78
BMEP for Prime Output	bar	20.80
BMEP for Continuous Output	bar	18.80
Typical Generation Standby Output	kW	1100
Typical Generation Prime Output	kW	1000
Typical Generation Continuous Output	kW	900
Typical Alternator Efficiency		94.5%
Speed droop (static) elect. Gov.		0-5%
Governing standards to ISO 8528		G3
Max. step load acceptance, 1st step		40%

## Lubrication System

<b>Lube Oil Specification</b>		API-CF4
Oil Capacity	l	180
Max. Permissible Oil Temperature	°C	110
Oil Pressure Warning	kPa	300
Oil Pressure Shutdown	kPa	200

## Electrical System

Charging Alternator Voltage	V	28
Charging Alternator Capacity	A	55
Starting Voltage	V	24
Starting Motor Capacity	kW	13
Minimum Battery Capacity (Ref. Varta brand)	Ah	4*120

## Fuel System

Governor Type		Electrical
Engine Output at genset prime output	KW	78
Fuel Consumption at 25% of PRP	l/h	130
Fuel Consumption at 50% of PRP	l/h	186
Fuel Consumption at 75% of PRP	l/h	245
Fuel Consumption at 100% of PRP	l/h	185

## Intake & Exhaust System

Combustion Air Consumption	m <sup>3</sup> /min	111
Max. Intake Restriction	KPa	2
Exhaust Temperature (Before Turbo)	°C	550
Exhaust Temperature (After Turbo)	°C	450
Max. Exhaust Back Pressure	Kpa	2
Exhaust Gas Flow	m <sup>3</sup> /min	278
Turbo Bellows Diameter	mm	2*DN250
Exhaust Flange Diameter	mm	2*DN250

## Cooling System

Coolant Capacity for Engine	l	100
Max. Permissible Temperature	°C	90
Max. Coolant Warning Temperature	°C	95
Max. Coolant Shutdown Temperature	°C	98
Thermostat Open Temperature	°C	71
Radiator Cooling Flow	m <sup>3</sup> /min	2544
Flow of Cylinder liner Coolant pump	m <sup>3</sup> /h	38.4
Flow of aftercooler Coolant pump	m <sup>3</sup> /h	36.0
Heat dissipation (engine radiator)	kW	465
Heat dissipation (CAC)	kW	221
Heat dissipation (convection)	kW	69

## Alternator Specification

<b>Generator Model</b>		GP1000-6P
Voltage of Genset	V	480
Rating Speed	rpm	1200
Frequency	Hz	60
Capacity @ 0.8PF, H Rise Class	kW	1000
Efficiency @ 0.8PF	%	94.5
Duty		S1
Bearing		Double
Insulation		H
Rise Temperature		H
Enclosure		IP23
Over Speed	rpm	1650
Excitation System		AVR
AVR Model		MX321
Poles		6

## Performance Parameter

### Frequency

Frequency Droop	%	≤5
Steady-state Frequency Band	%	≤0.5
Related Downward Range of Frequency Setting	%	≥2.5
Related Upward Range of Frequency Setting	%	≥+2.5
Change Rate of Frequency Setting	%	0.2 ~ 1

### Transient Frequency Deviation

100% Sudden Power Decrease	%	≤10
Sudden Power Increase	%	≤7
100% Sudden Power Decrease	%	≤+10
Sudden Power Increase	%	≤-7
Frequency Recovery Time	sec	≤3
Related Frequency Tolerance Band	%	2

## Voltage

Steady-state Voltage Deviation	%	≤±1
Voltage Unbalance	%	1
Range of Voltage Setting	%	±5
Change Rate of Voltage Setting	%	0.2 ~1

### Transient Voltage Deviation

100% Sudden Power Decrease	%	≤+20
Sudden Power Increase	%	≤-15
Voltage Recovery Time	s	≤2

### Voltage Waveform & EMC Compatibility

Sin. Distortion	%	4
Coefficient Variation	%	5
Individual Harmonic Content	%	2
Radio Interference THF	%	≤2

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