

Datasheet

HGM1675 Googol Diesel Power Generator

1200kW-1500kVA 1340kW-1675kVA 50Hz



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.

POWER R

Diesel Generator Specification

Genset Model		HGM1675
Genset Prime Output	kW/kVA	1200/1500
Genset Standby Output	kW/kVA	1340/1675
Rating Power Factor		0.8
Rating Speed	rpm	1500
Rating Frequency	Hz	50
Rating Voltage	V	400
Engine Model	+ +	QTA3240-G5
Displacement	N I	53.1
Configuration		12V
Genset Size-Open Type (LxWxH)	mm	5200x2220x2800
Genset Weight	kg	10500

Engine Data in General

1 1	Turbocharger, air-water aftercooler
	Direct Injection
A .	Vee
	12
	53.1
mm	170
mm	195
	13.5:1
m/s	9.75
	Counter Clockwise
	218
	SAE00-21
	mm

Engine Specification

Engine Model		QTA3240-G5
Speed	rpm	1500
Standby Output (LTP)	kW	1466
Prime Output (PRP)	kW	1332
Engine Continuous Power (COP)	kW	1135
Fan Reduction	kW	64
Engine Net Standby Output (LTP)	kW	1402
Engine Net Prime Output (PRP)	kW	1268
Engine Net Continuous Output (COP)	kW	1071
BMEP for Standby Output	bar	21.82
BMEP for Prime Output	bar	19.94
BMEP for Continuous Output	bar	17.01
Typical Generation Standby Output	kW	1340
Typical Generation Prime Output	kW	1200
Typical Generation Continuous Output	kW	1020
Typical Alternator Efficiency		95.3%
Rating Power Factor	6	0.8
Speed droop (static) elect. Gov.		0-5%
Governing standards to ISO 8528		G3
Max. step load acceptance, 1st step		50%

Lubrication System

Lube Oil Specification		AFI-CG4
Oil Capacity	L	180
Max. Permissible Oil Temperature	°C	110
Oil Pressure Warning	kPa	300
Oil Pressure Shutdown	kPa	200
Oil Consumption (as % of fuel consumption)	%	≤0.5

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Electrical System

Charging Alternator Voltage	V	28
Charging Alternator Capacity	A	55
Starting Voltage	V	24
Starting Motor Capacity	kW	1*13
Minimum Battery Capacity (Ref. Varta brand)	Ah	4*150

Fuel System

Governor Type	2/16/2	Electrical
Fuel Consumption at 25% of PRP	l/h	98
Fuel Consumption at 50% of PRP	l/h	165
Fuel Consumption at 75% of PRP	l/h	235
Fuel Consumption at 100% of PRP	l/h	309
Lowest Fuel Consumption Ratio	g/kW.hr	195

Intake & Exhaust System

Combustion Air Consumption	m³/min	137
Max. Intake Restriction	KPa	5
Exhaust Temperature (Before Turbo)	°C	620
Exhaust Temperature (After Turbo)	°C	520
Max. Exhaust Back Pressure	Kpa	5
Exhaust Gas Flow	m³/min	343
Turbo Bellows Diameter	mm	DN250
Exhaust Flange Diameter	mm	DN250

Cooling System

Coolant Capacity for Engine	I	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	m³/min	2400
Flow of Cylinder liner Coolant pump	m³/h	50
Flow of aftercooler Coolant pump	m³/h	65
Heat dissipation (engine radiator)	kW	492
Heat dissipation (CAC)	kW	295
Heat dissipation (convection)	kW	82

Alternator Specification

Generator Model		GP1563-4P
Voltage of Genset	V	400
Rating Speed	rpm	1500
Frequency	Hz	50
Capacity @ 0.8PF, H Rise Class	kW	1250
Efficiency @ 0.8PF	%	95.3
Duty		S1
Bearing		Single
Insulation		Н
Rise Temperature		Н
Enclosure		IP23
Over Speed	rpm	2250
Excitation System		AVR
AVR Model		MX321
Poles		4

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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

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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



