

Datasheet

HGM2063 Googol Diesel Power Generator

1500kW-1875kVA 1650kW-2062.5kVA 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.

Diesel Generator Specification

Genset Model		HGM2063
Genset Prime Output	kW/kVA	1500/1875
Genset Standby Output	kW/kVA	1650/2062.5
Rating Power Factor		0.8
Rating Speed	rpm	1500
Rating Frequency	Hz	50
Rating Voltage	V	400
Engine Model	19-10	QTA3240-G9
Displacement	T	53.1
Configuration	0.0	12V
Genset Size-Open Type (LxWxH)	mm	5400x2600x2900
Genset Weight	kg	11300

Engine Data in General

Aspiration Type		Turbocharger, air-water aftercooler
Injection Type		Direct Injection
Configuration		Vee
No. of Cylinders		12
Displacement		53.1
Bore	mm	170
Stroke	mm	195
Compression Ratio		13.5:1
Piston Speed	m/s	9.75
Rotation Direction (from Flywheel)		Counter Clockwise
Number of Flywheel Teeth		218
Flywheel House Size		SAE00-21

Engine Specification

Engine Model		QTA3240-G9
Speed	rpm	1500
Standby Output (LTP)	kW	1832
Prime Output (PRP)	kW	1665
Engine Continuous Power (COP)	kW	1332
Fan Reduction	kW	66
Engine Net Standby Output (LTP)	kW	1766
Engine Net Prime Output (PRP)	kW	1599
Engine Net Continuous Output (COP)	kW	1266
BMEP for Standby Output	bar	25.94
BMEP for Prime Output	bar	23.59
BMEP for Continuous Output	bar	18.87
Typical Generation Standby Output	kW	1650
Typical Generation Prime Output	kW	1500
Typical Generation Continuous Output	kW	1200
Typical Alternator Efficiency	_ =	95.2%
Rating Power Factor		0.8
Speed droop (static) elect. Gov.		0-5%
Governing standards to ISO 8528		G3
Max. step load acceptance, 1st step		45%

Lubrication System

Lube Oil Specification		AFI-CG4
Oil Capacity	I	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	Α	55
Starting Voltage	V	24
Starting Motor Capacity	kW	1*13
Minimum Battery Capacity (Ref. Varta brand)	Ah	4*150

Fuel System

Governor Type	0	Electrical
Fuel Consumption at 25% of PRP	l/h	123
Fuel Consumption at 50% of PRP	l/h	205
Fuel Consumption at 75% of PRP	l/h	292
Fuel Consumption at 100% of PRP	l/h	386
Lowest Fuel Consumption Ratio	g/kW.hr	194

Intake & Exhaust System

Combustion Air Consumption	m³/min	171
Max. Intake Restriction	KPa	5
Exhaust Temperature (Before Turbo)	°C	660
Exhaust Temperature (After Turbo)	°C	540
Max. Exhaust Back Pressure	Kpa	5
Exhaust Gas Flow	m³/min	427
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	2750
Flow of Cylinder liner Coolant pump	m³/ <mark>h</mark>	50
Flow of aftercooler Coolant pump	m³/h	65
Heat dissipation (engine radiator)	kW	594
Heat dissipation (CAC)	kW	393
Heat dissipation (convection)	kW	102
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Alternator Specification

Generator Model		GP1900-4P
Voltage of Genset	V	400
Rating Speed	rpm	1500
Frequency	Hz	50
Capacity @ 0.8PF, H Rise Class	kW	1520
Efficiency @ 0.8PF	%	95.5
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



