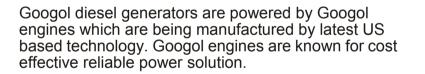
# HONNY POWER

# Datasheet

# HGM2063/6 Googol Diesel Power Generator

# 1500kW-1875kVA 1650kW-2062.5kVA 60Hz



### 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	Ache	HGM2063/6
Genset Prime Output	kW/kVA	1500/1875
Genset Standby Output	kW/kVA	1650/2062.5
Rating Power Factor		0.8
Rating Speed	rpm	1800
Rating Frequency	Hz	60
Rating Voltage	V	480
Engine Model		QTA3240-G6
Displacement		53.1
Configuration	1 100	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	I	53.1	
Bore	mm	170	
Stroke	mm	195	
Compression Ratio		13.5:1	
Piston Speed	m/s	11.7	
Rotation Direction (from Flywheel)		Counter Clockwise	
Number of Flywheel Teeth		218	
Flywheel House Size		SAE00-21	

## Engine Specification

Engine Model		QTA3240-G6
Speed	rpm	1800
Standby Output (LTP)	kW	1832
Prime Output (PRP)	kW	1665
Engine Continuous Power (COP)	kW	1496
Fan Quantity		1
All Fans Reduction	kW	72
Engine Net Standby Output (LTP)	kW	1760
Engine Net Prime Output (PRP)	kW	1593
Engine Net Continuous Output (COP)	kW	1424
BMEP for Standby Output	bar	22.59
BMEP for Prime Output	bar	20.61
BMEP for Continuous Output	bar	18.65
Typical Generation Standby Output	kW	1650
Typical Generation Prime Output	kW	1500
Typical Generation Continuous Output	kW	1350
Typical Alternator Efficiency		95.5%
Speed droop (static) elect. Gov.		0-5%
Governing standards to ISO 8528	2/	G3
Max. step load acceptance, 1st step		40%

## Lubrication System

Lube Oil Specification		API-CF4
Oil Capacity	- I	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	125
Fuel Consumption at 25% of PRP	l/h	208
Fuel Consumption at 50% of PRP	l/h	297
Fuel Consumption at 75% of PRP	l/h	392
Fuel Consumption at 100% of PRP	l/h	197

### Intake & Exhaust System

Combustion Air Consumption	m³/min	167
Max. Intake Restriction	KPa	2
Exhaust Temperature (Before Turbo)	°C	690
Exhaust Temperature (After Turbo)	°C	570
Max. Exhaust Back Pressure	Кра	2
Exhaust Gas Flow	m³/min	416
Turbo Bellows Diameter	mm	2*DN250
Exhaust Flange Diameter	mm	2*DN250

## Cooling System

I	100
°C	90
°C	95
°C	98
°C	71
m³/min	3300
m³/h	57.6
m³/h	54.0
kW	672
kW	319
kW	100
	°C °C °C m³/min m³/h m³/h kW kW

## Alternator Specification

Generator Model		GP1900-4P
Voltage of Genset	V	480
Rating Speed	rpm	1800
Frequency	Hz	60
Capacity @ 0.8PF, H Rise Class	kW	1673
Efficiency @ 0.8PF	%	95.5
Duty	110	S1
Bearing	- THE	Single
Insulation	- H	н
Rise Temperature		Н
Enclosure		IP23
Over Speed	rpm	2250
Excitation System		AVR
AVR Model		MX321
Poles		4

#### **Performance Parameter**

#### Frequency

Frequenc <mark>y Droop</mark>	%	≤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**

%	≤10
%	≤7
%	≤+10
%	≤-7
sec	≤3
%	2
	% % % sec

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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



