HONNY POWER

Datasheet

HGM1375E Googol Diesel Power Generator

1000kW-1250kVA 1100kW-1375kVA 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		HGM1375E
Genset Prime Output	kW/kVA	1000/1250
Genset Standby Output	kW/kVA	1100/1375
Rating Power Factor		0.8
Rating Speed	rpm	1500
Rating Frequency	Hz	50
Rating Voltage	V	400
Engine Model		PTAA37EG3
Displacement		36.5
Configuration		20V
Genset Size-Open Type (LxWxH)	mm	5000x2190x2500
Genset Weight	kg	7900

Engine Data in General

	Turbocharger, air-air aftercooler	
	Common rail	
	Vee	
	20	
I	36.5	
mm	128	
mm	142	
	15.5:1	
m/s	7.1	
	Counter Clockwise	
	204	
	SAE00-18	
	mm	

Engine Specification

Engine Model		PTAA37EG3
Speed	rpm	1500
Standby Output (LTP)	kW	1218
Prime Output (PRP)	kW	1110
Engine Continuous Power (COP)	kW	840
Fan Quantity		1
All Fans Reduction	kW	45
Engine Net Standby Output (LTP)	kW	1173
Engine Net Prime Output (PRP)	kW	1065
Engine Net Continuous Output (COP)	kW	795
Typical Generation Standby Output	kW	1100
Typical Generation Prime Output	kW	1000
Typical Generation Continuous Output	kW	750
Typical Alternator Efficiency	%	95.0%
Rating Power Factor	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	0.8
Speed droop (static) elect. Gov.		0-5%
Governing standards to ISO 8528		G3
Max. step lo <mark>ad acceptance</mark> , 1st step(% PRP)		50%

Lubrication System

Lube Oil Specification		AFI-CG4
Oil Capacity	I	60
Max. Permissible Oil Temperature	°C	110
Oil Pressure Warning	kPa	200
Oil Pressure Shutdown	kPa	160
Oil Consumption (as % of fuel consumption)	%	≤0.5

Electrical System

Charging Alternator Voltage	V	28
Charging Alternator Capacity	A	35
Starting Voltage	V	24
Starting Motor Capacity	kW	1*9
Minimum Battery Capacity	Ah	4*150

Fuel System

Governor Type		Common Rail
Fuel Consumption at 25% of PRP	l/h	70
Fuel Consumption at 50% of PRP	l/h	132
Fuel Consumption at 75% of PRP	l/h	191
Fuel Consumption at 100% PRP	l/h	258
Lowest Fuel Consumption Ratio	g/kW.hr	196

Intake & Exhaust System

	12	
Combustion Air Consumption	m³/min	91
Max. Intake Restriction	KPa	5
Exhaust Temperature (Before Turbo)	°C	696
Exhaust Temperature (After Turbo)	°C	530
Max. Exhaust Back Pressure	KPa	5
Exhaust Gas Flow	m³/min	113
Turbo Bellows Diameter	mm	DN200
Exhaust Flange Diameter	mm	DN200

Cooling System

Coolant Capacity for Engine	I	40
Max. Permissible Temperature	°C	90
Max. Coolant Warning Temperature	°C	95
Max. Coolant Shutdown Temperature	°C	105
Thermostat Open Temperature	°C	71
Radiator Cooling Flow	m³/min	1800
Flow of Cylinder liner Coolant pump	m³/h	60
Heat dissipation (engine radiator)	kW	578
Heat dissipation (convection)	kW	86

Alternator Specification

Generator Model		GP1250-4P
Voltage of Genset	V	400
Rating Speed	rpm	1500
Frequency	Hz	50
Capacity @ 0.8PF, H Rise Class	kW	1000
Efficiency @ 0.8PF	%	95
Duty	6	S1
Bearing		Single
Insulation		Н
Rise Temperature		Н
Enclosure	1150	IP23
Over speed	rpm	2250
Excitation System		AVR
AVR Model		MX341
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

100% sudden power decrease	%	≤10
100 % sudden power decrease	/0	310
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



