

	<b>Googol Power-Tech Co., Ltd.</b>	Engine Model: PTAA1340-G4	Engine Application: Generator
	Phoenix Lake Industrial Park, Yongchuan, Chongqing City, China		
	Tel: 86-23-49682222, Fax: 86-23-49683222	Engine Prime Power: 772 KW	RPM: 1800
	5820 Central Ave, Unit 230, Riverside CA92504, U.S.A		
	Tel: 1-909-7436092 Fax: 1-909-9392093	Engine Standby Power: 845 KW	Publication Date: 03-01-2015

## Specifications:

Engine Model		PTAA1340-G4
Speed	rpm	1800
<b>Rating Output</b>		
Engine Standby Output (LTP)	kW	845
Engine Prime Output (PRP)	kW	772
Engine Continuous Power (COP)	kW	620
Fan Reduction	kW	38
Engine Net Standby Output (LTP)	kW	807
Engine Net Prime Output (PRP)	kW	734
Engine Net Continuous Output (COP)	kW	582
BMEP for Standby Output	bar	25.40
BMEP for Prime Output	bar	23.15
BMEP for Continuous Output	bar	18.63
Typical Generation Standby Output	kW	750
Typical Generation Prime Output	kW	680
Typical Generation Continuous Output	kW	540
Max. step load acceptance, 1st step (% Prime Output)		52%
<b>Basic Performance Datasheet</b>		
Aspiration Type		Turbocharger, air-air aftercooler
Injection Type		Direct Injection
Configuration		Vee
No. of Cylinders		12
Displacement	l	21.9
Bore	mm	128
Stroke	mm	142
Compression Ratio		15:1
Piston Speed	m/s	8.52
Rotation Direction (from flywheel)		Counter Clockwise
Number of Flywheel Teeth		204
Flywheel House Size		SAE0-18
<b>Lubrication System</b>		
Lube Oil Specification		API-CF4
Oil Capacity	l	36

Max. Permissible Oil Temperature	°C	110
Oil Pressure Warning	kPa	200
Oil Pressure Shutdown	kPa	160
<b>Cooling System</b>		
Coolant Capacity for Engine	l	23
Max. Permissible Temperature	°C	90
Max. Coolant Warning Temperature	°C	95
Max. Coolant Shutdown Temperature	°C	105
Thermostat Open Temperature	°C	79
Radiator Cooling Flow	m <sup>3</sup> /min	928
Flow of Coolant pump	m <sup>3</sup> /h	30.48
Heat dissipation (engine radiator)	kW	406
Heat dissipation (convection)	kW	60
Mode of Radiator(Aluminium core, 40°C environment's temp)		6400301
Mode of Radiator( Aluminium core, 50°C environment's temp)		6500301
<b>Fuel System</b>		
Governor Type		Electrical
Engine Output at genset prime output	kW	772
Fuel Consumption at 25% of genset prime output	l/h	60.89
Fuel Consumption at 50% of genset prime output	l/h	101.49
Fuel Consumption at 75% of genset prime output	l/h	145.06
Fuel Consumption at 100% of genset prime output	l/h	191.49
Lowest Fuel Consumption Ratio	g/kW.hr	207.12
<b>Intake &amp; Exhaust System (On Standby Output)</b>		
Combustion Air Consumption	m <sup>3</sup> /min	70.42
Max. Intake Restriction	KPa	5
Exhaust Temperature (Before Turbo)	°C	695
Exhaust Temperature (After Turbo)	°C	560
Max. Exhaust Back Pressure	Kpa	5
Exhaust Gas Flow	m <sup>3</sup> /min	91.54
Turbo Bellows Diameter	mm	DN150
Exhaust Flange Diameter	mm	DN150
<b>Electrical System</b>		
Charging Alternator Voltage	V	28
Charging Alternator Capacity	A	35
Starting Voltage	V	24
Starting Motor Capacity	kW	6.6
Minimum Battery Capacity	Ah	2*200
<b>Engine Dimension</b>		
Length	mm	1717
Width	mm	1389
Height	mm	1288
Engine Dry Weight w/o Cooling System	kg	1625

- 1: All engine parameters are in accordance with ISO3046, ISO8528.
- 2: All engine parameters are based on 25°C / 100kPa environment condition.
- 3: No power decrease with below 40°C environment temperature and 1500 meter altitude.
- 4: More than 40°C and 1500m above sea level , decrease 2% per 10°C , and 4% per 300m.
- 5: At calorific value 42700 kJ/kg + 5%, density 0,835 kg/dm<sup>3</sup> , temperature 280 K.

6: Above data is only the testing data in our laboratory, it can't used to be the data on all contract.

## Picture of Googol PTAA1340-G4 Diesel Engine.

