

	<b>Googol Power-Tech Co., Ltd.</b>	Engine Model: QTA5400-G3	Engine Application: Generator
	Phoenix Lake Industrial Park, Yongchuan, Chongqing City, China		
	Tel: 86-23-49682222, Fax: 86-23-49683222	Engine Prime Power: 2442 KW	RPM: 1500
	5820 Central Ave, Unit 230, Riverside CA92504, U.S.A		
	Tel: 1-909-7436092 Fax: 1-909-9392093	Engine Standby Power: 2686 KW	Publication Date: 03-01-2015

## Specifications:

Engine Model		QTA5400-G3
Speed	rpm	1500
<b>Rating Output</b>		
Standby Output (LTP)	kW	2686
Prime Output (PRP)	kW	2442
Engine Continuous Power (COP)	kW	2048
Fan Quantity		1
Fan Reduction	kW	134.0
Single Fan Reduction	kW	134.0
All Fans Reduction	kW	134.0
Engine Net Standby Output (LTP)	kW	2552
Engine Net Prime Output (PRP)	kW	2308
Engine Net Continuous Output (COP)	kW	1914
BMEP for Standby Output	bar	23.99
BMEP for Prime Output	bar	21.92
BMEP for Continuous Output	bar	18.34
Typical Generation Standby Output	kW	2420
Typical Generation Prime Output	kW	2200
Typical Generation Continuous Output	kW	1820
Max. step load acceptance, 1st step (% Prime Output)		42%
<b>Basic Performance Datasheet</b>		
Aspiration Type		Turbocharger, air-water aftercooler
Injection Type		Direct Injection
Configuration		Vee
No. of Cylinders		20
Displacement	l	88.5
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
<b>Lubrication System</b>		
Lube Oil Specification		API-CF4
Oil Capacity	l	300
Max. Permissible Oil Temperature	°C	110
Oil Pressure Warning	kPa	300
Oil Pressure Shutdown	kPa	200
<b>Cooling System</b>		
Coolant Capacity for Engine	l	200
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	m <sup>3</sup> /min	3800
Flow of Cylinder liner Coolant pump	m <sup>3</sup> /h	80
Flow of aftercooler Coolant pump	m <sup>3</sup> /h	75
Heat dissipation (engine radiator)	kW	916
Heat dissipation (CAC)	kW	550
Heat dissipation (convection)	kW	147
Mode of Radiator(Aluminium core, 40°C environment's temp)		6400901
Mode of Radiator( Aluminium core, 50°C environment's temp)		6500901
Mode of Radiator( Aluminium core, 45°C environment's temp)		6450901
<b>Fuel System</b>		
Governor Type		Electrical
Engine Output at genset prime output	kW	2442
Fuel Consumption at 25% of genset prime output	l/h	176.44
Fuel Consumption at 50% of genset prime output	l/h	294.07
Fuel Consumption at 75% of genset prime output	l/h	420.30
Fuel Consumption at 100% of genset prime output	l/h	554.85
Lowest Fuel Consumption Ratio	g/kW.hr	189.72
<b>Intake &amp; Exhaust System (On Standby Output)</b>		
Combustion Air Consumption	m <sup>3</sup> /min	268.60
Max. Intake Restriction	KPa	2
Exhaust Temperature (Before Turbo)	°C	660
Exhaust Temperature (After Turbo)	°C	540
Max. Exhaust Back Pressure	KPa	2
Exhaust Gas Flow	m <sup>3</sup> /min	671.50
Turbo Bellows Diameter	mm	DN250
Exhaust Flange Diameter	mm	DN250
<b>Electrical System</b>		
Charging Alternator Voltage	V	28
Charging Alternator Capacity	A	55
Starting Voltage	V	24
Starting Motor Capacity	kW	2*13
Minimum Battery Capacity	Ah	4*200
<b>Engine Dimension</b>		

Length	mm	4110
Width	mm	1459
Height	mm	1820
Engine Dry Weight w/o Cooling System	kg	7900

- 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 QTA5400-G3 Diesel Engine.

