

	Googol Power-Tech Co., Ltd.	Engine Model: QTA5400-SG2	Engine Application: Generator
	Phoenix Lake Industrial Park, Yongchuan, Chongqing City, China		
	Tel: 86-23-49682222, Fax: 86-23-49683222	Engine Prime Power: 2000 KW	RPM: 1200
	5820 Central Ave, Unit 230, Riverside CA92504, U.S.A		
	Tel: 1-909-7436092 Fax: 1-909-9392093	Engine Standby Power: 2220 KW	Publication Date: 03-01-2015

Specifications:

Engine Model		QTA5400-SG2
Speed	rpm	1200
Rating Output		
Standby Output (LTP)	kW	2220
Prime Output (PRP)	kW	2000
Engine Continuous Power (COP)	kW	1668
Fan Quantity		1
Fan Reduction	kW	90.0
Single Fan Reduction	kW	90.0
All Fans Reduction	kW	90.0
Engine Net Standby Output (LTP)	kW	2130
Engine Net Prime Output (PRP)	kW	1910
Engine Net Continuous Output (COP)	kW	1578
BMEP for Standby Output	bar	24.55
BMEP for Prime Output	bar	22.20
BMEP for Continuous Output	bar	18.67
Typical Generation Standby Output	kW	2000
Typical Generation Prime Output	kW	1800
Typical Generation Continuous Output	kW	1500
Max. step load acceptance, 1st step (% Prime Output)		40%
Basic Performance Datasheet		
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	7.8
Rotation Direction (from flywheel)		Counter Clockwise

Number of Flywheel Teeth		218
Flywheel House Size		SAE00-21
Lubrication System		
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
Cooling System		
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 ³ /min	3000
Flow of Cylinder liner Coolant pump	m ³ /h	64
Flow of aftercooler Coolant pump	m ³ /h	60
Heat dissipation (engine radiator)	kW	732
Heat dissipation (CAC)	kW	435
Heat dissipation (convection)	kW	113
Mode of Radiator(Aluminium core, 40°C environment's temp)		6400903
Mode of Radiator(Aluminium core, 50°C environment's temp)		6500903
Mode of Radiator(Aluminium core, 45°C environment's temp)		6450903
Fuel System		
Governor Type		Electrical
Engine Output at genset prime output	kW	2000
Fuel Consumption at 25% of genset prime output	l/h	140.36
Fuel Consumption at 50% of genset prime output	l/h	233.94
Fuel Consumption at 75% of genset prime output	l/h	334.35
Fuel Consumption at 100% of genset prime output	l/h	441.39
Lowest Fuel Consumption Ratio	g/kW.hr	184.28
Intake & Exhaust System (On Standby Output)		
Combustion Air Consumption	m ³ /min	222.00
Max. Intake Restriction	KPa	2
Exhaust Temperature (Before Turbo)	°C	580
Exhaust Temperature (After Turbo)	°C	460
Max. Exhaust Back Pressure	KPa	2
Exhaust Gas Flow	m ³ /min	555.00
Turbo Bellows Diameter	mm	DN250
Exhaust Flange Diameter	mm	DN250
Electrical System		
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
Engine Dimension		

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/dm³ , 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-SG2 Diesel Engine.

