

	Googol Power-Tech Co., Ltd.	Engine Model: QTA4320-G7	Engine Application: Generator
	Phoenix Lake Industrial Park, Yongchuan, Chongqing City, China		
	Tel: 86-23-49682222, Fax: 86-23-49683222	Engine Prime Power: 2220 KW	RPM: 1500
	5820 Central Ave, Unit 230, Riverside CA92504, U.S.A		
	Tel: 1-909-7436092 Fax: 1-909-9392093	Engine Standby Power: * KW	Publication Date: 03-01-2015

Specifications:

Engine Model		QTA4320-G7
Speed	rpm	1500
Rating Output		
Standby Output (LTP)	kW	*
Prime Output (PRP)	kW	2220
Engine Continuous Power (COP)	kW	1776
Fan Quantity		4
Fan Reduction	kW	22.0
Single Fan Reduction	kW	20.0
All Fans Reduction	kW	80.0
Engine Net Standby Output (LTP)	kW	*
Engine Net Prime Output (PRP)	kW	2140
Engine Net Continuous Output (COP)	kW	1696
BMEP for Standby Output	bar	*
BMEP for Prime Output	bar	23.58
BMEP for Continuous Output	bar	18.86
Typical Generation Standby Output	kW	*
Typical Generation Prime Output	kW	2000
Typical Generation Continuous Output	kW	1600
Max. step load acceptance, 1st step (% Prime Output)		35%
Basic Performance Datasheet		
Aspiration Type		Turbocharger, air-water aftercooler
Injection Type		Direct Injection
Configuration		Vee
No. of Cylinders		16
Displacement	l	70.8
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
Lubrication System		
Lube Oil Specification		API-CF4
Oil Capacity	l	240
Max. Permissible Oil Temperature	°C	110
Oil Pressure Warning	kPa	300
Oil Pressure Shutdown	kPa	200
Cooling System		
Coolant Capacity for Engine	l	140
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	3200
Flow of Cylinder liner Coolant pump	m ³ /h	80
Flow of aftercooler Coolant pump	m ³ /h	75
Heat dissipation (engine radiator)	kW	780
Heat dissipation (CAC)	kW	483
Heat dissipation (convection)	kW	121
Mode of Radiator(Aluminium core, 40°C environment's temp)		6400802
Mode of Radiator(Aluminium core, 50°C environment's temp)		6500802
Mode of Radiator(Aluminium core, 45°C environment's temp)		6450802
Fuel System		
Governor Type		Electrical
Engine Output at genset prime output	kW	2220
Fuel Consumption at 25% of genset prime output	l/h	159.96
Fuel Consumption at 50% of genset prime output	l/h	266.60
Fuel Consumption at 75% of genset prime output	l/h	381.04
Fuel Consumption at 100% of genset prime output	l/h	503.02
Lowest Fuel Consumption Ratio	g/kW.hr	189.20
Intake & Exhaust System (On Standby Output)		
Combustion Air Consumption	m ³ /min	222.00
Max. Intake Restriction	KPa	2
Exhaust Temperature (Before Turbo)	°C	670
Exhaust Temperature (After Turbo)	°C	545
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	3596
Width	mm	1459
Height	mm	1820
Engine Dry Weight w/o Cooling System	kg	6400

- 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 QTA4320-G7 Diesel Engine.

