

GORAN GENERATOR



GGC2000-1 GENSET Generating Set Powered By STAMFORD

Output Ratings

Generating Set Model	Prime Power	Standby Power
1500rpm, 50 Hz / 400V	1500KW _e / 1875KVA	1600KW _e / 2000KVA
1800rpm, 60 Hz / 440V	-	-

Genset Specifications

Engine Make & Model	Cummins QSK60-G3
Origin	UK
Alternator Type	Stamford PI734E
Control Panel	Deap Sea - 7310
Circuit Breaker Type	3 Pole ACB
Water Cooling System	
Electronic Governor	
Emission Compliant	

Fuel System

	50%	75%	100%
1500rpm, 50 Hz	196	276	371
1800rpm, 60Hz	-	-	-

*Prime Power (l/hr)

International Standards

Engine confirm to ISO 9001:2000, ISO 14001, ISO 10054, ISO 3046, BS 5514, DIN 6271.
Alternator confirm to ISO 9001, ISO 14001, BS EN 60034, BS 5000, VDE 0530, NEMA MG1-32, IEC34 CSA C22.2-100, AS 1359, BS 6861 I, B En 61000-6-2:2001



RATING GUIDELINES

PRIME POWER rating corresponds to ISO Standard Power for continuous operation. It is applicable for supplying electrical power at variable load for an unlimited number of hours instead of commercially purchased power. A10 % overload capability for governing purpose is available for this rating.

MAXIMUM STANDBY POWER rating corresponds to ISO Standard Fuel Stop Power. It is applicable for supplying standby electrical power at variable load in areas with well established electrical networks in the event of normal utility power failure. No overload capability is available for this rating. **1 hp = 1 kW x 1.36**

Engine Technical Data

No. of Cylinders / Alignment	16/60° Vee
Cycle	4 - Stroke
Aspiration	Turbocharged
Injection	Direct
Bore, mm	159
Stroke, mm	190
Displacement, l	60.2
Compression Ratio	14.5:1
Starting	24V Electric
Alternators, Amps	24V/55A

Alternator Technical Data

No. of Bearings	Single Bearing
Insulation System	Class H
Excitation	PMG
Voltage Regulator	MX34I
Protection	IP23
Temperature Rise, °C	125
Regulation	±1.0%
No. of Phases	3
No. of Poles	4

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STAMFORD

Performances 1500rpm 1800rpm

Alternator Efficiency 95.8% -

Engine Power

Prime Power, KWm(hp) 1580(2119) -
Standby Power, KWm(hp) 1737(2329) -

Alternator

Prime Power, KWe 1520 -

Lubrication System 1500rpm 1800rpm

Oil Consumption (l/hr) - -

Oil Sump Capacity, l 261 -

Oil System Capacity Include Filters, l 280 -

Cooling System 1500rpm 1800rpm

Heat Radiation from Engine and Alternator, Power KW 160 -

Heat Rejection to Coolant and Lube Oil at Standby Power, KW 460 -

Radiator Cooling Air Flow, m³/s 34 -

Coolant Capacity, l 6816 -

Intake & Exhaust System 1500rpm 1800rpm

Air Flow Combustion at Standby Power, cfm 4780 -

Heat Rejection Exhaust at Standby Power, KW 1120 -

Exhaust Gas Temperature at Standby °C 440 -

Max Allowable Back Pressure in Exhaust Line, Kpa 6.67 -

Exhaust Gas Flow at Standby Power, m³/min(cfm) 331.3(11700) -

Accessories

Oil Drain Pump **Anti-Vibration Pads**

Stainless Steel Flexible **Genuine Oil**

Oil (VDS3 15/40) **Genuine Coolant**

Coolant 'Ready Mix' **Fuel Tank Base Frame for 8hrs**

Standard Silencer

Control Panel Readings

- AC volts, AC currents, DC volts, frequency, rpm, hour counter, power factor.
- Low oil pressure, high water temperature, boost pressure and temperature, KW, KWh, KVA, KVAR
- Oil pressure, low oil level, high oil temperature
- DC alternator failure, over speed, over crank (Fail to start), over under voltage, over under current, any sensor failure
- Low coolant level - Configurable inputs&outputs
- Upgradable for GSM network connection, Signal SMS messages.

Optional Equipment

• Engine

- Coolant heater
- Oversize batteries
- Extra fuel pre-filter water separator
- Battery Disconnect Switch
- Electrical Governor

• Alternator

- Excitation Boost System (EBS)
- Upgrade to 3 phase sensing AVR
- Qadrature droop kit
- Anti-condensation heater
- Air inlet filters

• General

- Upgrade to modular controller for paralleling
- Upgrade to 4 pole circuit breaker
- Battery charger
- Automatic transfer switch
- Fuel level switch High / Low for alarm and control
- Fuel transfer pump Automatic / Manual
- Residential grade silencer
- Weather protective and acoustic enclosure.

Spare Parts Kit (Optional)

Genuine - Cummins

Oil filter (4)
Fuel filter (3)
Air filter (4)
Fan belt set (1)
Coolant filter (2)

General Information

Documentation

Engine instruction book-English
Alternator manual- English
Wiring diagram

Warranty

One year or 1000 thousand hours whichever elapsed first against all defects in material / or workmanship, subject to the terms and conditions of the Manufacturer's warranty.

GORAN

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