



## Generating Set Powered By





## **Output Ratings Generating Set Model Prime Power Standby Power** 1500rpm, 50 Hz / 400V

1800rpm, 60 Hz / 440V 2275KWe / 2844KVA 2500KWe / 3125KVA

Genset Specifications	
Engine Make & Model	Cummins QSK78-G7
Origin	UK
<b>Alternator Type</b>	Stamford LVSI804S
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	-	-	-
1800rpm, 60Hz	345	475	611

<sup>\*</sup>Prime Power (I/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 MGI-32, IEC34 CSA C22.2-100, AS 1359, BS 6861 1, 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 govering 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. I  $hp = 1 kW \times 1.36$ 

## **Engine Technical Data**

No. of Cylinders / Alignment	18/60°Vee
Cycle	4 - Stroke
Aspiration	Turbocharged
Injection	Direct
Bore, mm	170
Stroke, mm	190
Displacement,I	77.6
Compression Ratio	15.3:1
Starting	24V Electric
Alternators, Amps	24V/55A

Alternator Technical Data	
No. of Bearings	Single Bearing
Insulation System	Class H
Excitation	PMG
Voltage Regulator	MA330
Protection	IP23
Temperature Rise, °C	125
Regulation	±0.5%
No. of Phases	3
No. of Poles	4

# GGC3125 GENSET





Performances	1500rpm	1800rpm
Alternator Efficiency	-	95.8%
Engine Power Prime Power, KWm(hp) Standby Power, KWm(hp)	<u>:</u> :	2460(3299) 2693(3611)
<b>Alternator</b> Prime Power, KWe	-	2456

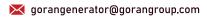
Lubrication System	I500rpm	1800rpm
Oil Consumption (I/hr)	-	-
Oil Sump Capacity,I	-	412.6
Oil System Capacity Include Filters,I	-	465.6

Cooling System	1500rpm	1800rpm
Heat Radiation from Engine and Alternator, Power KW	-	271
Heat Rejection to Coolant and Lube Oil at Standby Power, KW		1015
Radiator Cooling Air Flow, m <sup>3</sup> /s	-	-
Coolant Capacity, I	-	223.4

Intake & Exhaust System	1500rpm	1800rpm
Air Flow Combustion at Standby Power, m³/min(cfm)	-	230(8129)
Heat Rejection Exhaust at Standby Power, KW	-	1834
Exhaust Gas Temperature at Standby °C	-	443
Max Allowable Back Pressure in Exhaust Line, Kpa	-	7.0
Exhaust Gas Flow at Standby Power, m³/min(l/s)	-	577.144(9621)

(	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 temparature, 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 Disconnector 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	(1)
Fuel filter	(1)
Air filter	(1)
Fan belt set	(1)
Coolant filter	(I)
Comment Information	

## General Information

## **Documentation**

Engine instruction book-English Alternator manual- English Wiring diagram

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.

