

GORAN GENERATOR



GGC3438 GENSET

Generating Set Powered By



STAMFORD

Output Ratings

Generating Set Model	Prime Power	Standby Power
1500rpm, 50 Hz / 400V	-	-
1800rpm, 60 Hz / 440V	2500KWe / 3125KVA	2750KWe / 3438KVA

Genset Specifications

Engine Make & Model	Cummins QSK78-G8
Origin	UK
Alternator Type	Stamford LVS1804S
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	352	500	634

*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	18/60° Vee
Cycle	4 - Stroke
Aspiration	Turbocharged
Injection	Direct
Bore, mm	170
Stroke, mm	190
Displacement, l	77.6
Compression Ratio	18.5:1
Starting	24V Electric
Alternators, Amps	24V/55A

Alternator Technical Data

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

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Performances	1500rpm	1800rpm
Alternator Efficiency	-	95.8%
Engine Power		
Prime Power, KWm(hp)	-	2696(3615)
Standby Power, KWm(hp)	-	2957(3965)
Alternator		
Prime Power, KWe	-	2456

- ### 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.

Lubrication System	1500rpm	1800rpm
Oil Consumption (l/hr)	-	-
Oil Sump Capacity, l	-	412.62
Oil System Capacity Include Filters, l	-	465.62

- ### 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.

Cooling System	1500rpm	1800rpm
Heat Radiation from Engine and Alternator, Power KW	-	282
Heat Rejection to Coolant and Lube Oil at Standby Power, KW	-	1058
Radiator Cooling Air Flow, m³/s	-	-
Coolant Capacity, l	-	223.4

Intake & Exhaust System	1500rpm	1800rpm
Air Flow Combustion at Standby Power, m³/min(cfm)	-	236.55(8354)
Heat Rejection Exhaust at Standby Power, KW	-	1879
Exhaust Gas Temperature at Standby °C	-	452
Max Allowable Back Pressure in Exhaust Line, Kpa	-	7.0
Exhaust Gas Flow at Standby Power, m³/min(l/s)	-	555(9250)

Spare Parts Kit (Optional)	Genuine - Cummins
Oil filter	(1)
Fuel filter	(1)
Air filter	(1)
Fan belt set	(1)
Coolant filter	(1)

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	

- ### 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.

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