



# KMGC-3438 GENSET

Generating Set Powered By **STAMFORD** **LEROY-SOMER**<sup>™</sup>

## Output Ratings

Speed,Frequency/Volt	Prime Power	Standby Power
1800rpm, 60 Hz / 416V	2500KWe/3125KVA	2750KWe/3438KVA

## Genset Specification

Engine Make & Model	Cummins QSK78-G8
Origin	UK
Alternator Type	LV804T / S9L1D-D4I
Control Panel	Deep Sea - 7310 MKII
Circuit Breaker Type	3Pole ACB
Water Cooling System	
Electronic Governor	
<b>Fuel System (prime)</b>	<b>50%</b> <b>75%</b> <b>100%</b>
1800rpm, 60Hz (L/hr)	352      500      634

## International Standards

Engine confirm to ISO 9001:2000, ISO 14001, ISO10054, 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°V
Cycle	4 - Stroke
Aspiration	Turbocharged
Injection	Direct
Bore, mm	159
Stroke, mm	190
Displacement,l	77.6
Compression Ratio	15.5:1
Starting	24V Electric
Alternators,Amps	24V/55A

## Alternator Technical Data

No. of Bearings	Single Bearing
Insulation System	Class H
Excitation	PMG
Voltage Regulator	DM110
Protection	IP23
Temperature Rise,°C	Prime 125 /40 Standby 163/27
Regulation	±0.25%
No. of Phases	3
No. of Poles	4

# KMGC-3438 GENSET



Generating Set Powered By

**STAMFORD LEROY-SOMER™**

Performances	1800rpm
<b>Alternator Efficiency</b>	95.8%
<b>Engine Power</b>	
Prime Power, KWm(hp)	2696(3615)
Standby Power, KWm(hp)	2957(3965)
<b>Alternator</b>	
Prime Power, KWe	2536

Lubrication System	1800rpm
<b>Oil Consumption (l/hr)</b>	0.03
<b>Oil Sump Capacity, l</b>	412.62
<b>Oil System Capacity Include Filters, l</b>	465.6

Cooling System	1800rpm
<b>Heat Radiation from Engine and Alternator, Power KW</b>	282
<b>Heat Rejection to Coolant and Lube Oil at Standby Power, KW</b>	1058
<b>Radiator Cooling Air Flow, m<sup>3</sup>/s</b>	-
<b>Coolant Capacity, l (engine only)</b>	223.4

Intake & Exhaust System	1800rpm
<b>Air Flow Combustion at Standby Power, m<sup>3</sup>/min(cfm)</b>	236.55(8354)
<b>Heat Rejection Exhaust at Standby Power, KW</b>	1879
<b>Exhaust Gas Temperature at Standby °C</b>	452
<b>Max Allowable Back Pressure in Exhaust Line, Kpa</b>	7.0
<b>Exhaust Gas Flow at Standby Power, m<sup>3</sup>/min(cfm)</b>	555(9550)

Accessories	
Standard Silencer	Anti-Vibration Pads
Stainless Steel Flexible	Genuine Coolant 'Ready Mix'
Genuine Oil	

## 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	(1)
Fuel filter	(1)
Air filter	(1)
Fan belt set	(1)
Coolant filter	(1)

## General Information

### Documentation

Engine instruction book-English  
Alternator manual- English  
Wiring diagram

### Warranty

One year with unlimited hours against all defects in material or workmanship, subject to the terms and conditions of the Manufacturer's warranty

