KHONAYSSER GROUP

KMGC-600 GENSET

Generating Set Powered By Cummins STAMFORD LEROY-SOMER

Output Ratings

Speed,Frequency/Volt	Prime Power	Standby Power
1800rpm,60Hz/416V	452KWe/565kVA	480KWe/600KVA

Genset Specification

Engine Make & Model	Cummins QSX15-G9
Origin	USA
Alternator Type	S5L1D-D41/TAL0473C
Control Panel	Deep Sea - 7310 MKII
Circuit Breaker Type	3Pole MCCB
Water Cooling System	
Electronic Governor	
Emission Compliant	

Fuel System (prime)	50%	75%	100%
1800rpm, 60Hz (L/hr)	65.3	90.5	117.8

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 1, B En 61000-6-2:2001

ISO 9001 BUREAU VERITAS Certification UKAS

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. **1 hp = 1 kW x 1.36**

Engine Technical Data

No. of Cylinders / Alignment	6/ In Line
Cycle	4 - Stroke
Aspiration	Turbocharged
Injection	Direct HPI-TP
Bore, mm	137
Stroke, mm	169
Displacement, l	15
Compression Ratio	17.0:1
Starting	24V Electric
Alternators, Amps	24V/35A

Alternator Technical Data

No. of Bearings	Single Bearing
Insulation System	Class H
Excitation	Self Excited
Voltage Regulator	AS440/R150
Protection	IP23
Temperature Rise, °C	Prime 125/40 Standby 163/27
Regulation	±1.0% - ±0.8%
No. of Phases	3
No. of Poles	4

Dimensions (m) & Weights (kg)

	L	W	H	Weight	Tank Capacity(L)
Open	3.65	1.41	2.04	3750	370
Enclosed	4.99	1.79	2.35	6200	560

For the enclosed type:-
The sound level is around 85 dB(A) @ 3m .
The height to be increased by 12cm for the hook.

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Performances	1800rpm
Alternator Efficienc	94.5%
Engine Power	
Prime Power, KWm(hp)	480(644)
Standby Power, KWm(hp)	530(711)
Alternator	
Prime Power, KWe	460

Lubrication System	1800rpm
Oil Consumption (l/hr)	0.03
Oil Sump Capacity,l	83
Oil System Capacity Include Filters,l	91

Cooling System	1800rpm
Heat Radiation from Engine and Alternator, Power KW	36
Heat Rejection to Coolant and Lube Oil at Standby Power, KW	162
Radiator Cooling Air Flow, m^3/s	11.8
Coolant Capacity,l	66

Intake & Exhaust System	1800rpm
Air Flow Combustion at Standby Power, m^3/min(cfm)	42.7(1510)
Heat Rejection Exhaust at Standby Power, KW	429
Exhaust Gas Temperature at Standby °C	488
Max Allowable Back Pressure in Exhaust Line, Kpa	10
Exhaust Gas Flow at Standby Power, m^3/min(cfm)	108.8(3845)

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 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	(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

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