



KM GC-500-2 GENSET

Generating Set Powered By 

STAMFORD LEROY-SOMER™

Output Ratings

Speed, Frequency/Volt	Prime Power	Standby Power
1800rpm, 60Hz/416V	364KWe/455KVA	400KWe/500KVA

Genset Specifications

Engine Make & Model	Cummins QSG12-G4
Origin	China
Alternator Type	S4L1D-F41/TAL0473A
Control Panel	Deep Sea - 7310 MKII
Circuit Breaker Type	3Pole MCCB
Water Cooling System	
Electronic Governor	

Fuel System (prime)	50%	75%	100%
1800rpm, 60Hz (L/hr)	47	69	96

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	6/ In Line
Cycle	4 - Stroke
Aspiration	Turbocharged
Injection	Direct
Bore, mm	132
Stroke, mm	144
Displacement, l	11.8
Compression Ratio	17.0:1
Starting	24V Electric
Alternators, Amps	24V/110A

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
Regulation	±1.0% - ±0.8%
No. of Phases	3
No. of Poles	4

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Performances 1800rpm	
Alternator Efficiency	93.4%
Engine Power	
Prime Power, KWm(hp)	408(547)
Standby Power, KWm(hp)	445(597)
Alternator	
Prime Power, KWe	364

Lubrication System 1800rpm	
Oil Consumption (l/hr)	-
Oil Sump Capacity, l	
	-
Oil System Capacity Include Filters, l	34.1

Cooling System 1800rpm	
Heat Radiation from Engine and Alternator, Power KW	28
Heat Rejection to Coolant and Lube Oil at Standby Power, KW	159
Radiator Cooling Air Flow, m³/s (cfm)	8.4 (17798)
Coolant Capacity, l	48

Intake & Exhaust System 1800rpm	
Air Flow Combustion at Standby Power, m³/min(cfm)	31(1096)
Heat Rejection Exhaust at Standby Power, KW	353
Exhaust Gas Temperature at Standby °C	533
Max Allowable Back Pressure in Exhaust Line, Kpa	10.2
Exhaust Gas Flow at Standby Power, m³/min(cfm)	76.4(2699)

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	(2)
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

