



KMGC38 GENSET

Generating Set Powered By 

STAMFORD **LEROY-SOMER™**

Output Ratings

Sped,Frequency/Volt	Prime Power	Standby Power
1500rpm, 50 Hz / 400V	28KWe/35KVA	30KWe/38KVA

Genset Specification

Engine Make & Model	Cummins X3.3-G1
Origin	India
Alternator Type	S1L2-J1
Control Panel	Deep Sea - 6110 MKIII
Circuit Breaker Type	3Pole MCB
Water Cooling System	
Mechanical Governor	
Electrical Stop Solenoid, Energized to Run	
Compact Size	
Fuel System (prime)	50% 75% 100%
1500rpm, 50 Hz (L/hr)	4.3 6.1 8.5

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	4/ In Line
Cycle	4 - Stroke
Aspiration	Naturally
Injection	Mechanical
Bore, mm	91.4
Stroke, mm	127
Displacement, l	3.3
Compression Ratio	18.5:1
Starting	12V Electric
Alternators, Amps	12V/36A

Alternator Technical Data

No. of Bearings	Single Bearing
Insulation System	Class H
Excitation	Self Excited
Voltage Regulator	AS540
Protection	IP23
Temperature Rise, °C	Prime 125/40 Standby 150/40
Regulation	±1.0%
No. of Phases	3
No. of Poles	4

Dimensions (m) & Weights (kg)

	L	W	H	Weight	Tank Capacity(L)
Open	1.96	0.75	1.29	815	95
Enclosed	2.32	1.13	1.39	1400	180

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		1500rpm
Alternator Efficiency		87.4%
Engine Power		
Prime Power, KWm(hp)		31(41)
Standby Power, KWm(hp)		35(46)
Alternator		
Prime Power, KW		27.87

Lubrication System		1500rpm
Oil Consumption (l/hr)		0.150% of fuel consumption
Oil Sump Capacity, l		7.3
Oil System Capacity Include Filters, l		8

Cooling System		1500rpm
Heat Radiation from Engine and Alternator, Power KW		8.7
Heat Rejection to Coolant and Lube Oil at Standby Power, KW		29
Radiator Cooling Air Flow, m³/s		1.7
Coolant Capacity, l		11.7

Intake & Exhaust System		1500rpm
Air Flow Combustion at Standby Power, m³/min(cfm)		2.06(73)
Heat Rejection Exhaust at Standby Power, KW		29
Exhaust Gas Temperature at Standby °C		600
Max Allowable Back Pressure in Exhaust Line, Kpa		4.74
Exhaust Gas Flow at Standby Power, m³/min(cfm)		2.29(81)

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&output
- 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
 - Quadrature droop kit
 - Anti-condensation heater
 - Air inlet filter
- 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)
Alternator belt set	(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

