



## KMGC110 GENSET

Generating Set Powered By



STAMFORD® LEROY-SOMER™

### Output Ratings

Speed, Frequency/Volt	Prime Power	Standby Power
1500rpm, 50 Hz / 400V	80KWe / 100KVA	88KWe / 110KVA

### Genset Specifications

Engine Make & Model	Cummins 6BTA5.9G5
Origin	India
Alternator Type	UCI274C/TAL044D
Control Panel	Deep Sea - 6110 MKIII
Circuit Breaker Type	3 Pole MCCB

### Water Cooling System

Electronic Governor
Electrical Stop Solenoid, Energized to Run

### Compact Size

Fuel System (prime)	50%	75%	100%
1500rpm, 50 Hz (L/hr)	12	18	25

### 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 1, 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. A 10 % 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.  $1 \text{ hp} = 1 \text{ kW} \times 1.36$

### Engine Technical Data

No. of Cylinders / Alignment	6/ In Line
Cycle	4 - Stroke
Aspiration	Turbocharged
Injection	Direct
Bore, mm	102
Stroke, mm	120
Displacement, l	5.9
Compression Ratio	17.6:1
Starting	12V Electric
Alternators, Amps	12V/55A

### Alternator Technical Data

No. of Bearings	Single Bearing
Insulation System	Class H
Excitation	Self Excited
Voltage Regulator SX460	AS440/R120
Protection	IP23
Temperature Rise, °C	Prime 125/40 Standby 163/27
Regulation	±1.0%
No. of Phases	3
No. of Poles	4

### Dimensions (m) & Weights (kg)

	L	W	H	Weight	Tank Capacity(L)
Open	2.64	0.85	1.62	1200	130
Enclosed	3.66	1.13	1.94	2150	195

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	90.3%
<b>Engine Power</b>	
Prime Power, KWm(hp)	90(121)
Standby Power, KWm(hp)	98(131)
<b>Alternator</b>	
Prime Power, KWe	83.886

## 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
Oil Consumption (l/hr)	-
<b>Oil Sump Capacity, l</b>	14.3
Oil System Capacity Include Filters, l	16.4

## 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.

Intake & Exhaust System	1500rpm
Air Flow Combustion at Standby Power, m <sup>3</sup> /min(cfm)	7.86(276)
Heat Rejection Exhaust at Standby Power, KW	85
Exhaust Gas Temperature at Standby °C	533
Max Allowable Back Pres- sure in Exhaust Line, Kpa	10.25
Exhaust Gas Flow at Standby Power, m <sup>3</sup> /min(cfm)	21.42(755)

## Spare Parts Kit (Optional)

## Genuine - Cummins

Oil filter	(l)
Fuel filter	(l)
Air filter	(l)
Fan belt set	(l)
Alternator belt set	(l)

## 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

