



KMGC28 GENSET

Generating Set Powered By



STAMFORD

LEROY-SOMER™

Output Ratings

Speed,Frequency/Volt	Prime Power	Standby Power
1500rpm, 50 Hz / 400V	20KWe/25KVA	22.4KWe/28KVA

Genset Specification

Engine Make & Model Cummins X2.5 - G2

Origin India

Alternator Type S0L2-PI/TAI042C

Control Panel Deep Sea - 6I10 MKIII

Circuit Breaker Type 3 Pole 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)	3.5	4.8	6

International Standards

Engine conform to ISO 9001:2000, ISO 14001, ISO 10054, ISO 3046, BS 5514, DIN 6271. Alternator conform to ISO 9001, ISO 14001, BS EN 60034, BS 5000, VDE 0530, NEMA MG1-32, IEC34 CSA C22.2-100, AS 1359, BS 6861, 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 3/ In Line

Cycle 4 - Stroke

Aspiration Naturally

Injection Mechanical

Bore, mm 91.4

Stroke, mm 127

Displacement, l 2.5

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/R120

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	800	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	87.0%
Engine Power	
Prime Power, KWm(hp)	23(31)
Standby Power, KWm(hp)	26(35)
Alternator	
Prime Power, KWe	24

Lubrication System	1500rpm
Oil Consumption (l/hr)	0.1% 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	7.5
Heat Rejection to Coolant and Lube Oil at Standby Power, KW	15.5
Radiator Cooling Air Flow, m³/s	1.6
Coolant Capacity, l	10

Intake & Exhaust System	1500rpm
Air Flow Combustion at Standby Power, m³/min(cfm)	2.3(82.4)
Heat Rejection Exhaust at Standby Power, KW	22
Exhaust Gas Temperature at Standby °C	660
Max Allowable Back Pressure in Exhaust Line, Kpa	3.38
Exhaust Gas Flow at Standby Power, m³/min(cfm)	N/A

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)
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

