KMGC550-1 GENSET

Generating Set Powered By Cummins

STAMFORD LEROY-SOMER

Output Ratings

Speed,Frequency/Volt	Prime Power	Standby Power
1500rpm, 50 Hz / 400V	400KWe / 500KVA	440KWe / 550KVA

Genset Specifications

Engine Make & Model	Cummins KTA19-G4
Origin	India
Alternator Type	S5L1D-D41/TAL0473C
Control Panel	Deep Sea - 7310 MKII
Circuit Breaker Type	3Pole MCCB
Water Cooling System	
Electronic Governor	

Fuel System (prime)	50%	75%	100%
1500rpm, 50 Hz (L/hr)	57	82	107

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

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
Bore, mm	159
Stroke, mm	159
Displacement, l	18.9
Compression Ratio	13.9:1
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
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	1.37	2.17	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	1500rpm
Alternator Efficiency	94.3%
Engine Power Prime Power, KWm(hp) Standby Power, KWm(hp)	 430(583) 481(645)
Alternator Prime Power, KWe	 440

Lubrication System	1500rpm
Oil Consumption (l/hr)	-
Oil Sump Capacity,l	38
Oil System Capacity Include Filters,l	50

Cooling System	1500rpm
Heat Radiation from Engine and Alternator, Power KW	72
Heat Rejection to Coolant and Lube Oil at Standby Power, KW	270
Radiator Cooling Air Flow, m^3/s	-
Coolant Capacity engine only, L	30

Intake & Exhaust System	1500rpm
Air Flow Combustion at Standby Power, m^3/min(cfm)	34.7(1226)
Heat Rejection Exhaust at Standby Power, KW	361
Exhaust Gas Temperature at Standby °C	557
Max Allowable Back Pressure in Exhaust Line, Kpa	10.13
Exhaust Gas Flow at Standby Power, m^3/min(cfm)	96.2(3400)

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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