KHONAYSSER GROUP

KMGC2000-1 GENSET

Generating Set Powered By Cummins STAMFORD LEROY-SOMER

Output Ratings

Speed,Frequency/Volt	Prime Power	Standby Power
1500rpm, 50 Hz / 400V	1440KWe/1800kVA	1600KWe/2000kVA

Genset Specifications

Engine Make & Model	**Cummins** KTA50-G23
Origin	Inida
Alternator Type	S7L1D-F41
Control Panel	Deep Sea - 7310 MKII
Circuit Breaker Type	3Pole ACB
Water Cooling System	
Electronic Governor	

Fuel System (prime)	50%	75%	100%
1500rpm, 50 Hz (L/hr)	205	289	380

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

ISO 9001 BUREAU VERITAS Certification — UKAS QUALITY MANAGEMENT

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	16/60° V
Cycle	4 - Stroke
Aspiration	Turbocharged
Injection	Direct
Bore, mm	159
Stroke, mm	159
Displacement,l	50.3
Compression Ratio	14.7:1
Starting	24V Electric
Alternators, Amps	24V/55A

Alternator Technical Data

No. of Bearings	Single Bearing
Insulation System	Class H
Excitation	PMG
Voltage Regulator	MX341
Protection	IP23
Temperature Rise,°C	Prime 125/40 Standby 163/27
Regulation	±1%
No. of Phases	3
No. of Poles	4

KHONAYSSER

KMGC2000-1 GENSET

Generating Set Powered By

STAMFORD LEROY-SOMER™

@ 2023 Khonaysser Group - All Rights Reserved

Performances	1500rpm
Alternator Efficiency	95.8%
Engine Power Prime Power, KWm(hp) Standby Power, KWm(hp)	 1683(2257) 1510(2025)
Alternator Prime Power, KWe	 1520

Lubrication System	1500rpm
Oil Consumption (l/hr)	-
Oil Sump Capacity,l	178
Oil System Capacity Include Filters,l	188

Cooling System	1500rpm
Heat Radiation from Engine and Alternator, Power KW	171
Heat Rejection to Coolant and Lube Oil at Standby Power, KW	542
Radiator Cooling Air Flow, m^3/s	35
Coolant Capacity, l	516

Intake & Exhaust System	1500rpm
Air Flow Combustion at Standby Power, m^3/min(cfm)	135.6(4790)
Heat Rejection Exhaust at Standby Power, KW	1361
Exhaust Gas Temperature at Standby °C	508
Max Allowable Back Pressure in Exhaust Line, Kpa	6.8
Exhaust Gas Flow at Standby Power, m^3/min(cfm)	331(11698)

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	(4)
Fuel filter	(3)
Air filter	(4)
Fan belt set	(1)
Coolant filter	(2)

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

KHONAYSSER

KHONAYSSER GROUP

Naher El Mott-Beirut-Lebanon Tel:+961 1 870078, Fax:+961 1 874795, P.O.Box:70268 **Doha-Qatar** Tel:+974 44503086 Fax:+974 44503786, 44161944 P.O.Box:11857
Riyadh-KSA Tel:+966 112252076, Fax:+966 112691402,P.O.Box:241241 **Dubai-UAE** Tel:+971 48811169, Fax:+971 48811164, P.O.Box:191902
Erbil - Iraq Tel: +964 750 30 12 907, Tel: +964 770 04 44 466, info@khonaysser.com, www.khonaysser.com