KHONAYSSER GROUP

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KMGP825 GENSET

Generating Set Powered By Perkins STAMFORD LEROY-SOMER™

Output Ratings

Speed,Frequency/Volt	Prime Power	Standby Power
1500rpm, 50 Hz / 400V	592KWe / 740KVA	652KWe / 815KVA

Genset Specifications

Engine Make & Model	**Perkins** 4006-23TAG2A
Origin	UK
Alternator Type	S5L1D-H41
Control Panel	Deep Sea - 7310 MKII
Circuit Breaker Type	3 Pole MCCB
Tropical Cooling System	
Digital Electronic Governor	
Turbocharged	
Exceptional Power to Weight Ratio	

Fuel System (prime)	50%	75%	100%
1500rpm, 50 Hz (L/hr)	80	117	155

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

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	160
Stroke, mm	190
Displacement,l	22.9
Compression Ratio	13.6:1
Starting	24V Electric
Alternators, Amps	24V/70A

Alternator Technical Data

No. of Bearings	Single Bearing
Insulation System	Class H
Excitation	Self excited
Voltage Regulator	AS440
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	3.85	1.69	2.25	6100	NA
Enclosed	6.52	2.15	3.12	9100	NA

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Performances	1500rpm
□□□□□□□□□□□	94.6%
Engine Power Prime Power, KWm(hp) Standby Power, KWm(hp)	 628(842) 691(926)
Alternator Prime Power, KWe	 600

Lubrication System	
Oil Consumption (l/hr)	0.25% of fuel consumption
Oil Sump Capacity,l	-
Oil System Capacity Include Filters,l	113.4

Cooling System	1500rpm
Heat Radiation from Engine and Alternator, Power KW	76
Heat Rejection to Coolant and Lube Oil at Standby Power, KW	240
Radiator Cooling Air Flow, m³/min (cfm)	870(30723)
Coolant Capacity,l	105

Intake & Exhaust System	1500rpm
Air Flow Combustion at Standby Power, m³/min(cfm)	71(2507)
Heat Rejection Exhaust at Standby Power, KW	657
Exhaust Gas Temperature at Standby °C	430
Max Allowable Back Pressure in Exhaust Line, Kpa	6.0
Exhaust Gas Flow at Standby Power, m³/min(cfm)	180(6356)

Accessories	
Stainless Steel Flexible	**Anti-Vibration Pads**
Standard Silencer	**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, fuel consumption, relative load
• Oil pressure, water temparature, 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 lev□□□□□□□□□□□□□□□
• Upgradable for GSM network connection, Signal SMS messages.

Optional Equipment

• Engine
-Coolant heater
-Oversize batteries
-Extra fuel pr□□□□□□□□□□□
• Alternator
-12 wire reconnectable stator/terminal arrangement
-Upgrade to AVR MX321
-Qadrature droop kit
-Anti-condensation heater
□□□□□□□□
• General
-Upgrade to modular controller for paralleling
-Upgrade to ACB
-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 - Perkins
□□□□□□□□□	(3)
□□□□□□□	(1)
Air □lter	(2)
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

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