KHONAYSSER GROUP

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KMGP-700-1 GENSET

Generating Set Powered By Perkins STAMFORD LEROY-SOMER™

Output Ratings

Speed,Frequency/Volt	Prime Power	Standby Power
1800rpm, 60 Hz / 416V	512KWe/640KVA	560KWe/700KVA

Genset Specifications

Engine Make & Model	Perkins 2806A-E18TAG2
Origin	USA
Alternator Type	S5L1D-E41/TAL0473E
Control Panel	Deep Sea - 7310 MKII
Circuit Breaker Type	3Pole MCCB
Tropical Cooling System	
Digital Electronic Governor	
Turbocharged	
Exceptional Power to Weight Ratio	

Fuel System (prime)	50%	75%	100%
1800rpm, 60 Hz (L/hr)	66	95	127

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	145
Stroke, mm	183
Displacement,l	18.13
Compression Ratio	14.5:1
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/R150
Protection	IP23
Temperature Rise,°C	Prime 125/40 Standby 150/40
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	3.75	1.54	2.13	4500	400
Enclosed	4.98	1.76	2.97	6945	673

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Performances	1800rpm
Alternator Efficiency	94.8%
Engine Power Prime Power, KWm(hp) Standby Power, KWm(hp)	 543(728) 598(802)
Alternator Prime Power, KWe	 545

Lubrication System	1800rpm
Oil Consumption (l/hr)	0.1% of fuel consumption at full load
Oil Sump Capacity,l	53
Oil System Capacity Include Filters,l	62

Cooling System	1800rpm
Heat Radiation from Engine and Alternator, Power KW	44
Heat Rejection to Coolant and Lube Oil at Standby Power, KW	190
Radiator Cooling Air Flow, m³/min (cfm)	852(30088)
Coolant Capacity, l	61

Intake & Exhaust System	1800rpm
Air Flow Combustion at Standby Power, m³/min(cfm)	45(1589)
Heat Rejection Exhaust at Standby Power, KW	482
Exhaust Gas Temperature at Standby °C	489
Max Allowable Back Pressure in Exhaust Line, Kpa	6.9
Exhaust Gas Flow at Standby Power, m³/min(cfm)	118(4167)

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, 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

-Permanent magnet generator (PMG)
-Upgrade to 3 phase sensing AVR
-Qadrature droop kit
-Anti-condensation heater
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- 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 - Perkins
□□□□□□□□□□□□□□	(2)
□□□□□□□	(1)
Fuel pre-□ter water separator	(1)
Air □ter	(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

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