KHONAYSSER GROUP

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KMGP1900 GENSET

Generating Set Powered By Perkins STAMFORD LEROY-SOMER

Output Ratings

Speed,Frequency/Volt	Prime Power	Standby Power
1500rpm, 50 Hz / 400V	1368KWe/1710KVA	1504KWe/1880KVA

Genset Specifications

Engine Make & Model	Perkins 4012-46TAG3A
Origin	UK
Alternator Type	S7L1D-F41
Control Panel	Deep Sea - 7310 MKII
Circuit Breaker Type	3Pole ACB
Tropical Cooling System	
Digital Electronic Governor	
Turbocharged	
Exceptional Power to Weight Ratio	

Fuel System (prime)	50%	75%	100%
1500rpm, 50 Hz (L/hr)	187	275	370

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	12V/60°
Cycle	4 Stroke
Aspiration	Turbocharged
Injection	Direct
Bore, mm	160
Stroke, mm	190
Displacement, l	45.842
Compression Ratio	13:1
Starting	24V Electric
Alternators, Amps	24V/40A

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 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	5.50	2.20	2.79	11400	N/A

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Performances	1500rpm
Alternator Efficiency	95.8%
Engine Power Prime Power, KWm(hp) Standby Power, KWm(hp)	 (1440)1931 (1583)2123
Alternator Prime Power, KWe	 1520

Lubrication System	1500rpm
Oil Consumption (l/hr)	0.92
Oil Sump Capacity,l	159
Oil System Capacity Include Filters,l	177

Cooling System	1500rpm
Heat Radiation from Engine and Alternator, Power KW	123
Heat Rejection to Coolant and Lube Oil at Standby Power, KW	625
Radiator Cooling Air Flow, m³/min	2004(70770)
Coolant Capacity, l	210

Intake & Exhaust System	1500rpm
Air Flow Combustion at Standby Power, m³/min	135
Heat Rejection Exhaust at Standby Power, KW	1200
Exhaust Gas Temperature at Standby °C	480
Max Allowable Back Pressure in Exhaust Line, Kpa	5.0
Exhaust Gas Flow at Standby Power, m³/min	350

Accessories

Standard Silencer	**Anti-Vibration Pads Genuine**
Stainless Steel Flexible	**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 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

- Alternator

-12 wire reconnectable stator/terminal arrangement
-Upgrade to AVR MX321
-Qadrature droop kit
-Anti-condensation heater
-Air inlet filters

- General

- upgrade to modular controller for paralleling -
- 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
Oil filter, full flow	(3)
Fuel filter	(1)
Air filter	(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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