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KMGP-1500 GENSET

Generating Set Powered By  Perkins  STAMFORD LEROY-SOMER™

Output Ratings

Speed, Frequency/Volt	Prime Power	Standby Power
1800rpm, 60 Hz / 416V	1092KWe/1365KVA	1200KWe/1500KVA

Genset Specifications

Engine Make & Model	Perkins 4012-46TAGIA
Origin	UK
Alternator Type	S6L1D-H4I/LSA50.2M6
Control Panel	Deep Sea - 7310 MKII
Circuit Breaker Type	3 Pole ACB

Tropical Cooling System

Digital Electronic Governor

Turbocharged

Exceptional Power to Weight Ratio

Fuel System (prime)	50%	75%	100%
1800rpm, 60Hz (L/hr)	158	221	284

International Standards

Engine conform to ISO 9001:2000, ISO 14001, ISO 10054, ISO 3046, BS 5514, DIN 6271. Alternator conform to ISO 9001, ISO 14001, BS EN 60034, BS 5000, VDE 0530, NEMA MG1-32, IEC34 CSA C22.2-100, AS I359, BS 6861 I, 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. A 10 % overload capability for governing 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. $1 \text{ hp} = 1 \text{ kW} \times 1.36$

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/AREP
Voltage Regulator	MX341/D350
Protection	IP23
Temperature Rise, °C	Prime 125/40 Standby 163/27
Regulation	±1.0% / ±0.25%
No. of Phases	3
No. of Poles	4

Dimensions (m) & Weights (kg)

L	W	H	Weight	Tank Capacity(L)
Open	5.20	2.20	2.39	9900

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Performances	1800rpm
Alternator Efficiency	94.9%
Engine Power	
Prime Power, KWm(hp)	1152(1545)
Standby Power, KWm(hp)	1267(1699)
Alternator	
Prime Power, KWe	1185

Control Panel Readings
• AC volts, AC currents, DC volts, frequency, rpm, hour counter, power factor.
• Low oil pressure, high water temperature, boost pressure and temperature, KW, KWh, KVA, KVAR, fuel consumption, relative load
• Oil pressure, water temperature, 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.

Lubrication System	1800rpm
Oil Consumption (l/hr)	0.2% of fuel consumption
Oil Sump Capacity, l	157.5
Oil System Capacity Include Filters, l	177

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
-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.

Intake & Exhaust System	1800rpm
Air Flow Combustion at Standby Power, m³/min(cfm)	124(4379)
Heat Rejection Exhaust at Standby Power, KW	1007
Exhaust Gas Temperature at Standby °C	403
Max Allowable Back Pressure in Exhaust Line, Kpa	5.0
Exhaust Gas Flow at Standby Power, m³/min(cfm)	287(10135)

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)

Accessories	
Standard Silencer	Anti-Vibration Pads
Stainless Steel Flexible	Genuine Coolant 'Ready Mix'
Genuine Oil	

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.

