



Image for illustration purposes only

## KMG1230 GENSET

Generating Set Powered By Perkins STAMFORD® LEROY-SOMER™

### Output Ratings

Speed, Frequency/Volt	Prime Power	Standby Power
1500rpm, 50 Hz / 400V	900KWe/1125kVA	984KWe/1230kVA

### Engine Technical Data

No. of Cylinders / Alignment	8 In Line
Cycle	4 Stroke
Aspiration	Turbocharged
Injection	Direct
Bore, mm	160
Stroke, mm	190
Displacement, l	30.56 l
Compression Ratio	13.6:1
Starting	24V Electric
Alternators, Amps	24V/55A

### Genset Specification

Engine Make & Model	Perkins 4008-30TAG3
Origin	UK
Alternator Type	S6L1D-F4I
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%
1500rpm, 50 Hz (L/hr)	120	188	244

### International Standards

Engine confirm to ISO 9001 2000, ISO 14001, ISO 10054, 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



### 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.  $1 \text{ hp} = 1 \text{ kW} \times 1.36$

### Alternator Technical Data

No. of Bearings	Single Bearing
Insulation System	Class H
Excitation	PMG
Voltage Regulator	MX34I
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	4.92	2.22	2.00	7450	N/A

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Performances	1500rpm
Alternator Efficiency	95.5%
<b>Engine Power</b>	
Prime Power, kW/hp	947(1270)
Standby Power, kW/hp	1055(1408)
<b>Alternator</b>	
Prime Power, kWe	920

## 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	1500rpm
Oil Consumption (g/kWhr)	0.4%
<b>Oil Sump Capacity, l</b>	153
Oil System Capacity Include Filters, l	-

## Optional Equipment

- **Engine**
  - Coolant heater
  - Oversize batteries
  - Extra fuel pre-filter water separator
- **Alternator**
  - 12wire reconnectable stator/terminal arrangement -
  - Quadrature 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	1500rpm
Air Flow Combustion at Standby Power, m³/min(cfm)	96(3390)
<b>Heat Rejection Exhaust at Standby Power, KW</b>	896
Exhaust Gas Temperature at Standby °C	482
<b>Max Allowable Back Pressure in Exhaust Line, Kpa</b>	7.0
Exhaust Gas Flow at Standby Power, m³/min(cfm)	240(8475)

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

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

