



# KGP1000 GENSET

Generating Set Powered By Perkins STAMFORD



Image for illustration purposes only

## Output Ratings

Generating Set Model	Prime Power	Standby Power
1500rpm, 50 Hz / 400V	818KWe / 1022KVA	900KWe / 1125KVA
1800rpm, 60 Hz / 440V	800KWe / 1000KVA	875KWe / 1100KVA

## Genset Specifications

Engine Make & Model	Perkins 4008TAG2A
Origin	UK
Alternator Type	Stamford S6L1D-E41
Control Panel	Deap Sea - 7310
Circuit Breaker Type	3 Pole MCCB

## Tropical Cooling System

## Digital Electronic Governor

## Turbocharged

## Exceptional Power to Weight Ratio

Fuel System	50%	75%	100%
1500rpm, 50 Hz	111	162	215
1800rpm, 60Hz	108	162	224

\*Prime Power (l/hr)

## 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 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. A10 % 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 hp = 1 kW x 1.36**

## Engine Technical Data

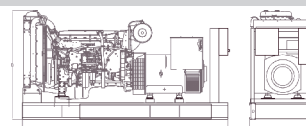
No. of Cylinders / Alignment	8 In Line
Cycle	4 Stroke
Aspiration	Turbocharged
Injection	Direct
Bore, mm	160
Stroke, mm	190
Displacement, l	30.56 l
Compression Ratio	13.6:1
Starting	24V Electric
Alternators, Amps	24V/40A

## Alternator Technical Data

No. of Bearings	Single Bearing
Insulation System	Class H
Excitation	PMG
Voltage Regulator	MX321
Protection	IP23
Temperature Rise, °C	125
Regulation	±0.5%
No. of Phases	3
No. of Poles	4

## Dimensions & Weights

Length(m)	Width(m)	Height(m)	Weight(kg)	Tank Capacity(L)
4.90	2.05	2.45	7550	N/A



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Performances	1500rpm	1800rpm
<b>Alternator Efficiency</b>	95.1%	95.1%
<b>Engine Power</b>		
Prime Power, KWm(hp)	861(1155)	838(1124)
Standby Power, KWm(hp)	947(1270)	924(1239)
<b>Alternator</b>		
Prime Power, KW	824	960

Lubrication System	1500rpm	1800rpm
<b>Oil Consumption (l/hr)</b>	0.51% of fuel consumption	
<b>Oil Sump Capacity, l</b>	-	
<b>Oil System Capacity Include Filters, l</b>	153	

Cooling System	1500rpm	1800rpm
<b>Heat Radiation from Engine and Alternator, Power KW</b>	100	110
<b>Heat Rejection to Coolant and Lube Oil at Standby Power, KW</b>	349	375
<b>Radiator Cooling Air Flow, m<sup>3</sup>/min (cfm)</b>	1200(42376.8)	1290(45555)
<b>Coolant Capacity, l</b>	149	

Intake & Exhaust System	1500rpm	1800rpm
<b>Air Flow Combustion at Standby Power, m<sup>3</sup>/min(cfm)</b>	80.5(2843)	77(2719.17)
<b>Heat Rejection Exhaust at Standby Power, KW</b>	807	830
<b>Exhaust Gas Temperature at Standby °C</b>	465	520
<b>Max Allowable Back Pressure in Exhaust Line, Kpa</b>	8.0	6.69
<b>Exhaust Gas Flow at Standby Power, m<sup>3</sup>/min(cfm)</b>	200(7063)	207(7309)

Accessories	
<b>Stainless Steel Flexible</b>	<b>Anti-Vibration Pads</b>
<b>Standard Silencer</b>	<b>Battery Disconnect Switch</b>

## 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.

## Optional Equipment

- **Engine**
  - Coolant heater
  - Oversize batteries
  - Extra fuel pre-filter water separator
- **Alternator**
  - 12 wire reconnectable stator/terminal arrangement
  - Upgrade to AVR MX32I
  - 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.

## 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 or 1000 thousand hours whichever elapsed first against all defects in material / or workmanship, subject to the terms and conditions of the Manufacturer's warranty.