



# KGP1700 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	1368KWe / 1710KVA	1504KWe / 1880KVA
1800rpm, 60 Hz / 440V	-	-

## Genset Specifications

Engine Make & Model	Perkins 4012-46TAG3A		
Origin	UK		
Alternator Type	Stamford PI734E/S7L1D-F4I		
Control Panel	Deap Sea - 7310		
Circuit Breaker Type	3 Pole ACB		
Tropical Cooling System			
Digital Electronic Governor			
Turbocharged			
Exceptional Power to Weight Ratio			
Fuel System	50%	75%	100%
1500rpm, 50 Hz	187	275	370
1800rpm, 60Hz	-	-	-

\*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

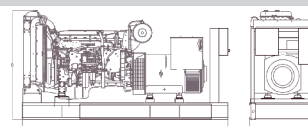
No. of Cylinders / Alignment	12V/60°
Cycle	4 Stroke
Aspiration	Turbocharged
Injection	Direct
Bore, mm	160
Stroke, mm	190
Displacement, l	45.842
Compression Ratio	13:1
Starting	24V Electric
Alternators, Amps	24V/40A

## Alternator Technical Data

No. of Bearings	Single Bearing
Insulation System	Class H
Excitation	PMG
Voltage Regulator	MX34I
Protection	IP23
Temperature Rise, °C	125
Regulation	±1.0%
No. of Phases	3
No. of Poles	4

## Dimensions & Weights

Length(m)	Width(m)	Height(m)	Weight(kg)	Tank Capacity(L)
5.40	2.20	2.55	9900	N/A



# KGP1500 GENSET

Generating Set Powered By  Perkins **STAMFORD**

Performances	1500rpm	1800rpm
<b>Alternator Efficiency</b>	96.0%	-
<b>Engine Power</b>		
Prime Power, KWm(hp)	1440(1958)	-
Standby Power, KWm(hp)	1583(2153)	-
<b>Alternator</b>		
Prime Power, KW	1520	

Lubrication System	1500rpm	1800rpm
<b>Oil Consumption (l/hr)</b>	0.75% of fuel consumption	
<b>Oil Sump Capacity, l</b>	157.5	
<b>Oil System Capacity Include Filters, l</b>	177	

Cooling System	1500rpm	1800rpm
<b>Heat Radiation from Engine and Alternator, Power KW</b>	170	
<b>Heat Rejection to Coolant and Lube Oil at Standby Power, KW</b>	625	
<b>Radiator Cooling Air Flow, m<sup>3</sup>/min (cfm)</b>	222(78400)	
<b>Coolant Capacity, l</b>	210	

Intake & Exhaust System	1500rpm	1800rpm
<b>Air Flow Combustion at Standby Power, m<sup>3</sup>/min(cfm)</b>	135(4768)	
<b>Heat Rejection Exhaust at Standby Power, KW</b>	1219	
<b>Exhaust Gas Temperature at Standby °C</b>	480	
<b>Max Allowable Back Pressure in Exhaust Line, Kpa</b>	5.0	
<b>Exhaust Gas Flow at Standby Power, m<sup>3</sup>/min(cfm)</b>	350(12360)	

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.

