



KGP13 GENSET

Generating Set Powered By **Perkins** **STAMFORD**

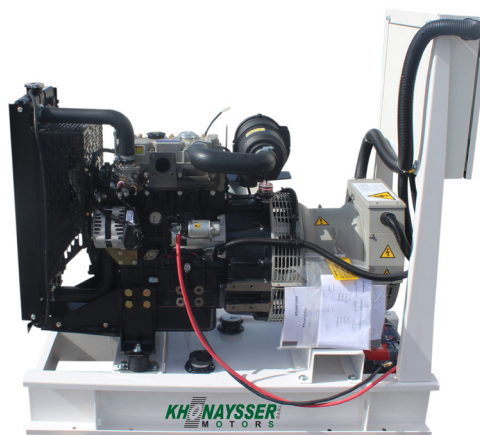


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Output Ratings

Generating Set Model	Prime Power	Standby Power
1500rpm, 50 Hz / 400V	10KW _e / 13KVA	11KW _e / 15KVA
1800rpm, 60 Hz / 440V	-	-

Genset Specifications

Engine Make & Model Perkins 403A-15G1

Origin UK

Alternator Type Stamford S0LI-L1

Control Panel Deap Sea - 6110

Circuit Breaker Type 3 Pole MCB

Water Cooling System

Mechanical Governor

Electrical Stop Solenoid, Energized to Run

Compact Size

Fuel System	50%	75%	100%
1500rpm, 50 Hz	2	2.8	3.7
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 3 In Line

Cycle 4 Stroke

Aspiration Naturally

Injection Indirect

Bore, mm 84

Stroke, mm 90

Displacement, l 1.496

Compression Ratio 22.5:1

Starting 12V Electric

Alternators, Amps 12V/15A

Alternator Technical Data

No. of Bearings Single Bearing

Insulation System Class H

Excitation Self Excited

Voltage Regulator AS540

Protection IP23

Temperature Rise, °C 125

Regulation ±1.0%

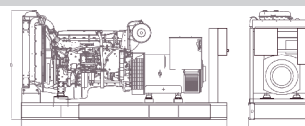
No. of Phases 3

No. of Poles 4

Dimensions & Weights

Length(m) Width(m) Height(m) Weight(kg) Tank Capacity(L)

1.30 0.52 1.25 375 38



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Performances	1500rpm	1800rpm
Alternator Efficiency	82.1%	-
Engine Power		
Prime Power, KWm(hp)	12(16)	-
Standby Power, KWm(hp)	13.2(17.6)	-
Alternator		
Prime Power, KWe	10	-

Lubrication System	1500rpm	1800rpm
Oil Consumption (l/hr)	0.1% of fuel consumption	-
Oil Sump Capacity, l	6	-
Oil System Capacity Include Filters, l	-	-

Cooling System	1500rpm	1800rpm
Heat Radiation from Engine and Alternator, Power KW	3.5	-
Heat Rejection to Coolant and Lube Oil at Standby Power, KW	12.9	-
Radiator Cooling Air Flow, m³/min (cfm)	28.8 (1017)	-
Coolant Capacity, l	6	-

Intake & Exhaust System	1500rpm	1800rpm
Air Flow Combustion at Standby Power, m³/min(cfm)	1.1(38)	-
Heat Rejection Exhaust at Standby Power, KW	10.3	-
Exhaust Gas Temperature at Standby °C	490	-
Max Allowable Back Pressure in Exhaust Line, Kpa	10.2	-
Exhaust Gas Flow at Standby Power, m³/min(cfm)	2.9(102)	-

Accessories	
Oil Drain	Anti-Vibration Pads
Stainless Steel Flexible	Fuel Tank Base Frame for 8hrs
Standard Silencer	

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
- Oil pressure, 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
 - Battery Disconnect Switch
 - Electrical Governor
- **Alternator**
 - Excitation Boost System (EBS)
 - Upgrade to 3 phase sensing AVR
 - Qadrature droop kit
 - Anti-condensation heater
 - Air inlet filters
- **General**
 - Upgrade to modular controller for paralleling
 - Upgrade to 4 pole circuit breaker
 - 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	(1)
Fuel filter	(1)
Air filter	(1)
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.

