



KGP45 GENSET

Generating Set Powered By ⁽²⁾ Perkins **STAMFORD**

Output Ratings		
Generating Set Model	Prime Power	Standby Power
1500rpm, 50 Hz / 400V	36KWe / 45KVA	40KWe / 50KVA
1800rpm, 60 Hz / 440V	43KWe / 53KVA	47KWe /59KVA

Genset Specifications

Engine Make & Model	Perkins 1103A-33TG1	
Origin	UK	
Alternator Type	Stamford SIL2-RI	
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	5.83	8.23	10.8
1800rpm, 60Hz	7.1	9.9	12.9

*Prime Power (I/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 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. A10 %overload capability for govering 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. I hp = I kW x 1.36

Image for illustration purposes only

Engine Technical Data	
No. of Cylinders / Alignment	3 In Line
Cycle	4 Stroke
Aspiration	Turbocharged
Injection	Direct
Bore, mm	105
Stroke, mm	127
Displacement,l	3.3
Compression Ratio	17.25:1
Starting	12V Electric
Alternators, Amps	12V/65A

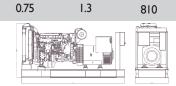
Alternator Technical Data

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

1.85

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





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Performances	I 500rpm	l 800rpm
Alternator Efficiency	88.2%	88.4%
Engine Power Prime Power, KWm(hp) Standby Power, KWm(hp)	41.3(55.4) 45.6(61.2)	48.9(65.6) 53.9(72.3)
Alternator Prime Power, KWe	40	50

Lubrication System	1500rpm	l800rpm
Oil Consumption (l/hr)	0.150% consum	
Oil Sump Capacity,I	7.8	ł
Oil System Capacity Include Filters,I	8.3	

Cooling System	l500rpm	1800rpm
Heat Radiation from Engine and Alternator, Power KW	8	9
Heat Rejection to Coolant and Lube Oil at Standby Power, KW		34
Radiator Cooling Air Flow, m ³ /min (cfm)	74.4(2627)	97.8(3454)
Coolant Capacity, I	10.2	

Intake & Exhaust System	1500rpm	l800rpm
Air Flow Combustion at Standby Power, m³/min(cfm)	3.1(109.4)	3.9(137.7)
Heat Rejection Exhaust at Standby Power, KW	35	43
Exhaust Gas Temperature at Standby °C	537	551
Max Allowable Back Pres- sure in Exhaust Line, Kpa	10.0	15.0
Exhaust Gas Flow at Standby Power, m³/min(cfm)	7.7(247)	9.5(335.4)

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 temparature, 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 Disconnector 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.



Naher El Mott- Beirut- Lebanon Tel:+ 961. 1. 7 00 78, Fax: + 961. 1. 87 47 95, PO.Box: 70268 - Antelias Doha - Qatar Tel: +974 445 030 86 Fax: +974 445 037 86 , 441 61 944 PO.Box: 11857 Erbil - Iraq, Tel: +964 750 30 12 907, Tel: +964 770 04 44 466, info@khonaysser.com, www.khonaysser.com