



# KGP80 GENSET

# Generating Set Powered By SPerkins STAMFORD

Image for illustration purposes only

Output Ratings		
Generating Set Model	Prime Power	Standby Power
1500rpm, 50 Hz / 400V	64KWe / 80KVA	70KWe / 88KVA
1800rpm, 60 Hz / 440V	73KWe / 91KVA	80KWe /100KVA

Genset Specifications		
Engine Make & Model	Perkins   104A-44TG2	
Origin	UK	
Alternator Type	Stamford UCI224G	
Control Panel	Deap Sea - 6110	
Circuit Breaker Type	3 Pole MCCB	
Tropical Cooling System		
Mechanical Governor		
Electrical Stop Solenoid, Energized to Run		

### Compact Size

Fuel System	50%	75%	100%
1500rpm, 50 Hz	9.7	14.0	18.7
1800rpm, 60Hz	11.9	16.9	22.3

<sup>\*</sup>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

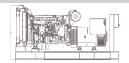
Engine Technical Data	
No. of Cylinders / Alignment	4 In Line
Cycle	4 Stroke
Aspiration	Turbocharged
Injection	Direct
Bore, mm	105
Stroke, mm	127
Displacement,I	4.4
Compression Ratio	17.25:1
Starting	12V Electric
Alternators, Amps	12V/65A

Alternator Technical Data	
No. of Bearings	Single Bearing
Insulation System	Class H
Excitation	Self Excited
Voltage Regulator	SX460
Protection	IP23
Temperature Rise,°C	125
Regulation	±1.0%
No. of Phases	3
No. of Poles	4

### **Dimensions & Weights**

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

2.15 0.75 1.3 975 100





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Performances	I500rpm	1800rpm
Alternator Efficiency	90.2%	90.8%
Engine Power Prime Power, KWm(hp) Standby Power, KWm(hp)	71.9(96.4) 79.1(106.1)	82(109.9) 90.2(121)
<b>Alternator</b> Prime Power, KWe	68	78

Lubrication System	I500rpm	1800rpm
Oil Consumption (I/hr)	0.15% o consum	
Oil Sump Capacity,I	7	
Oil System Capacity Include Filters,I	8	

Cooling System	I500rpm	1800rpm
Heat Radiation from Engine and Alternator, Power KW	14	15
Heat Rejection to Coolant as Lube Oil at Standby Power, K		57
Radiator Cooling Air Flow, m³/min (cfm)	121.2(4280)	140.4(4958)
Coolant Capacity, I	13	

Intake & Exhaust System	I500rpm	1800rpm
Air Flow Combustion at Standby Power, m³/min(cfm)	5.14(180)	6.5(230)
Heat Rejection Exhaust at Standby Power, KW	59	71
Exhaust Gas Temperature at Standby °C	580	560
Max Allowable Back Pressure in Exhaust Line, Kpa	10.0	15.0
Exhaust Gas Flow at Standby Power, m³/min(cfm)	13.3(470)	15.85(560)

Accessories	
Oil Drain Pump	Anti-Vibration Pads
Stainless Steel Flexible	<b>Battery Disconnector Switch</b>
Standard Silencer	Fuel Tank Base Frame for 8hrs

### 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, fuel consumption, relative load
- Oil pressure, water temparature, 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
- -Permanent magnet generator (PMG)
- -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 Fuel filter Air filter Fan belt set Alternator belt set	(I) (I) (I) (I)
General Information  Documentation	

Engine instruction book-English Alternator manual- English Wiring diagram

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.

