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## KMGP88 GENSET

Generating Set Powered By Perkins STAMFORD LEROY-SOMER™



### Output Ratings

Generating Set Model	Prime Power	Standby Power
1500rpm, 50 Hz / 400V	64KWe / 80KVA	70KWe / 88KVA

### Engine Technical Data

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

### Genset Specifications

Engine Make & Model	Perkins 1104A-44TG2
Origin	UK
Alternator Type	UCI224G/TAL 044 B
Control Panel	Deep Sea - 6110 MKIII
Circuit Breaker Type	3 Pole MCCB
Tropical Cooling System	
Mechanical Governor	
Electrical Stop Solenoid, Energized to Run	
Compact Size	
<b>Fuel System (prime)</b>	<b>50% 75% 100%</b>
1500rpm, 50 Hz (L/hr)	9.7 14.0 18.7

### 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 I359, 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. A 10 % 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.  $1 \text{ hp} = 1 \text{ kW} \times 1.36$

### Alternator Technical Data

No. of Bearings	Single Bearing
Insulation System	Class H
Excitation	Self Excited
Voltage Regulator	AS440/R120
Protection	IP23
Temperature Rise, °C	Prime 125/40
Regulation	±1.0%
No. of Phases	3
No. of Poles	4

### Dimensions (m) & Weights (kg)

	L	W	H	Weight	Tank Capacity(L)
Open	2.12	0.72	1.27	975	90
Enclosed	2.81	1.11	1.39	1615	180

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Performances	1500rpm
Alternator Efficiency	90.2%
<b>Engine Power</b>	
Prime Power, KWm(hp)	71.9(96.4)
Standby Power, KWm(hp)	79.1(106.1)
<b>Alternator</b>	
Prime Power, KWe	68

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&output
• Upgradable for GSM network connection, Signal SMS messages.

Lubrication System	1500rpm
Oil Consumption (l/hr)	0.15% of fuel consumption
<b>Oil Sump Capacity, l</b>	7
Oil System Capacity Include Filters, l	8

Optional Equipment
• Engine
-Coolant heater
-Oversize batteries
-Extra fuel pre-filter water separator
• Alternator
-Permanent magnet generator (PMG)
-Upgrade to 3 phase sensing AVR
-Quadrature droop kit
-Anti-condensation heater
-Air inlet filter
• 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.

Intake & Exhaust System	1500rpm
Air Flow Combustion at Standby Power, m³/min(cfm)	5.14(180)
Heat Rejection Exhaust at Standby Power, KW	59
Exhaust Gas Temperature at Standby °C	580
Max Allowable Back Pressure in Exhaust Line, Kpa	10.0
Exhaust Gas Flow at Standby Power, m³/min(cfm)	13.3(470)

Spare Parts Kit (Optional)	Genuine - Perkins
Oil filter, full flow	(I)
Fuel filter	(I)
Air filter	(I)
Fan belt set	(I)
Alternator belt set	(I)

Accessories	
Standard Silencer	Anti-Vibration Pads
Stainless Steel Flexible	Genuine Coolant 'Ready Mix'
Genuine Oil	

## General Information

### Documentation

Engine instruction book-English  
Alternator manual- English  
Wiring diagram

### Warranty

One year with unlimited hours against all defects in material or workmanship, subject to the terms and conditions of the Manufacturer's warranty

