



KMGP22 GENSET

Generating Set Powered By **PERKINS** **STAMFORD LEROY-SOMER**™



Image for illustration purposes only

Output Ratings

Speed,Frequency/Volt	Prime Power	Standby Power
1500rpm, 50 Hz / 400V	16KWe / 20KVA	18KWe / 22KVA

Genset Specifications

Engine Make & Model	Perkins 404A-22G1/404D-22G		
Origin	UK		
Alternator Type	S0L2-G1/TAL040F		
Control Panel	Deep Sea - 6110 MKIII		
Circuit Breaker Type	3 Pole MCB		
Water Cooling System			
Mechanical Governor			
Electrical Stop Solenoid, Energized to Run			
Compact Size			
Fuel System (prime)	50%	75%	100%
1500rpm, 50 Hz (L/hr)	2.9	4	5.3

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, 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	4 / In Line
Cycle	4 - Stroke
Aspiration	Naturally
Injection	Indirect
Bore, mm	84
Stroke, mm	100
Displacement, l	2.2 l6
Compression Ratio	23.3:1
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/R120
Protection	IP23
Temperature Rise, °C	Prime 125/40 Standby 163/27
Regulation	±1.0%
No. of Phases	3
No. of Poles	4

Dimensions (m) & Weights (kg)

	L	W	H	Weight	Tank Capacity(L)
Open	1.45	0.52	1.26	460	46
Enclosed	1.87	0.98	1.22	730	80

For the enclosed type:-
The sound level is around 85 dB(A) @ 3m .
The height to be increased by 12cm for the hook.

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Performances 1500rpm	
Alternator Efficiency	85.1%
Engine Power	
Prime Power, KWm(hp)	18.4(24.7)
Standby Power, KWm(hp)	20.3(27.2)
Alternator	
Prime Power, KWe	16

Lubrication System 1500rpm	
Oil Consumption (l/hr)	0.1% of fuel consumption
Oil Sump Capacity, l	10.6
Oil System Capacity Include Filters, l	-

Cooling System 1500rpm	
Heat Radiation from Engine and Alternator, Power KW	4.4
Heat Rejection to Coolant and Lube Oil at Standby Power, KW	19.6
Radiator Cooling Air Flow, m³/min (cfm)	40.2 (1419)
Coolant Capacity, l	7

Intake & Exhaust System 1500rpm	
Air Flow Combustion at Standby Power, m³/min(cfm)	1.45(51.2)
Heat Rejection Exhaust at Standby Power, KW	16.6
Exhaust Gas Temperature at Standby °C	505
Max Allowable Back Pressure in Exhaust Line, Kpa	10.2
Exhaust Gas Flow at Standby Power, m³/min(cfm)	3.94(139)

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

Control Panel Readings
<ul style="list-style-type: none"> • 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
<ul style="list-style-type: none"> • Engine <ul style="list-style-type: none"> -Coolant heater -Oversize batteries -Extra fuel pre-filter water separator -Battery Disconnect Switch -Electrical Governor • Alternator <ul style="list-style-type: none"> -Excitation Boost System (EBS) -Upgrade to 3 phase sensing AVR -Qadrature droop kit -Anti-condensation heater -Air inlet filters • General <ul style="list-style-type: none"> -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 with unlimited hours against all defects in material or workmanship, subject to the terms and conditions of the Manufacturer's warranty

