



# KMGP-12 GENSET

Generating Set Powered By Perkins STAMFORD LEROY-SOMER™



Image for illustration purposes only

## Output Ratings

Speed, Frequency/Volt	Prime Power	Standby Power
1800rpm, 60 Hz / 416V	8.8KWe / 11KVA	9.6KWe / 12kVA

## Genset Specifications

Engine Make & Model	Perkins 403A-11G1
Origin	UK
Alternator Type	S0LI-HI / TAL040B
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%
1800rpm, 60Hz (L/hr)	1.7	2.3	3.0

## International Standards

Engine conform to ISO 9001, 2000, ISO 14001, ISO 10054, ISO 3046, BS 5514, DIN 6271. Alternator conform 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. 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 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	77
Stroke, mm	81
Displacement, l	1.131
Compression Ratio	23:1
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	1.25	0.52	1.26	375	36
Enclosed	1.85	0.95	1.22	665	80

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Performances		1800rpm
<b>Alternator Efficiency</b>		80.8%
<b>Engine Power</b>		
Prime Power, KWm(hp)		10.3(13.9)
Standby Power, KWm(hp)		11.4(15.3)
<b>Alternator</b>		
Prime Power, KWe		8.8

Lubrication System		1800rpm
<b>Oil Consumption (l/hr)</b>		0.1% of fuel consumption
<b>Oil Sump Capacity, l</b>		-
<b>Oil System Capacity Include Filters, l</b>		4.9

Cooling System		1800rpm
<b>Heat Radiation from Engine and Alternator, Power KW</b>		3.1
<b>Heat Rejection to Coolant and Lube Oil at Standby Power, KW</b>		11.4
<b>Radiator Cooling Air Flow, m³/min (cfm)</b>		40.2 (1419)
<b>Coolant Capacity, l</b>		5.2

Intake & Exhaust System		1800rpm
<b>Air Flow Combustion at Standby Power, m³/min(cfm)</b>		0.9(31.7)
<b>Heat Rejection Exhaust at Standby Power, KW</b>		10.8
<b>Exhaust Gas Temperature at Standby °C</b>		515
<b>Max Allowable Back Pressure in Exhaust Line, Kpa</b>		10.2
<b>Exhaust Gas Flow at Standby Power, m³/min(cfm)</b>		2.4(84.7)

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

Control Panel Readings
<ul style="list-style-type: none"> <li>AC volts, AC currents, DC volts, frequency, rpm, hour counter, power factor.</li> <li>Low oil pressure, high water temperature, boost pressure and temperature, KW, KWh, KVA, KVAR</li> <li>Oil pressure, low oil level, high oil temperature</li> <li>DC alternator failure, over speed, over crank (Fail to start), over under voltage, over under current, any sensor failure</li> <li>Low coolant level - Configurable inputs&amp;output</li> <li>Upgradable for GSM network connection, Signal SMS messages.</li> </ul>

Optional Equipment
<ul style="list-style-type: none"> <li><b>Engine</b> <ul style="list-style-type: none"> <li>-Coolant heater</li> <li>-Oversize batteries</li> <li>-Extra fuel pre-filter water separator</li> <li>-Battery Disconnect Switch</li> <li>-Electrical Governor</li> </ul> </li> <li><b>Alternator</b> <ul style="list-style-type: none"> <li>-Excitation Boost System (EBS)</li> <li>-Upgrade to 3 phase sensing AVR</li> <li>-Quadrature droop kit</li> <li>-Anti-condensation heater</li> <li>-Air inlet filter</li> </ul> </li> <li><b>General</b> <ul style="list-style-type: none"> <li>-Upgrade to modular controller for paralleling</li> <li>-Upgrade to 4 pole circuit breaker</li> <li>-Battery charger</li> <li>-Automatic transfer switch</li> <li>-Fuel level switch High / Low for alarm and control</li> <li>-Fuel transfer pump Automatic / Manual</li> <li>-Residential grade silencer</li> <li>-Weather protective and acoustic enclosure.</li> </ul> </li> </ul>

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.

