



## KMGP-313 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/416-480V	228KWe/285KVA	248KWe/310KVA

### Genset Specifications

Engine Make & Model	Perkins 1506A-E88TAG3
Origin	USA
Alternator Type	UCDI274K/TAL046D
Control Panel	Deep Sea - 7310 MKII
Circuit Breaker Type	3 Pole MCCB

### Tropical Cooling System

Digital Electronic Governor

Turbocharged

### Exceptional Power to Weight Ratio

Fuel System (prime)	50%	75%	100%
1800rpm, 60Hz (L/hr)	33.1	47.5	63.1

### 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 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. 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	6 In Line
Cycle	4 Stroke
Aspiration	Turbocharged
Injection	Direct
Bore, mm	112
Stroke, mm	149
Displacement, l	8.8
Compression Ratio	16.1:1
Starting	24V Electric
Alternators, Amps	24V/45A

### Alternator Technical Data

No. of Bearings	Single Bearing
Insulation System	Class H
Excitation	Self Excited
Voltage Regulator	AS440/R150
Protection	IP23
Temperature Rise, °C	Prime 125/40 Standby 163/27
Regulation	±1.0%-±0.8%
No. of Phases	3
No. of Poles	4

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

	L	W	H	Weight	Tank Capacity(L)
Open	2.98	1.16	1.66	2150	350
Enclosed	3.97	1.26	2.00	3250	370

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Performances 1800rpm	
<b>Alternator Efficiency</b>	92.6%
<b>Engine Power</b>	
Prime Power, KWm(hp)	252(338)
Standby Power, KWm(hp)	279(374)
<b>Alternator</b>	
Prime Power, KWe	232

Lubrication System 1800rpm	
<b>Oil Consumption (l/hr)</b>	<0.1% of fuel consumption
<b>Oil Sump Capacity, l</b>	36
<b>Oil System Capacity Include Filters, l</b>	41

Cooling System 1800rpm	
<b>Heat Radiation from Engine and Alternator, Power KW</b>	7
<b>Heat Rejection to Coolant and Lube Oil at Standby Power, KW</b>	120
<b>Radiator Cooling Air Flow, m³/min (cfm)</b>	482(17022)
<b>Coolant Capacity, l</b>	29.6

Intake & Exhaust System 1800rpm	
<b>Air Flow Combustion at Standby Power, m³/min(cfm)</b>	19.8(699)
<b>Heat Rejection Exhaust at Standby Power, KW</b>	209
<b>Exhaust Gas Temperature at Standby °C</b>	496
<b>Max Allowable Back Pressure in Exhaust Line, Kpa</b>	10.0
<b>Exhaust Gas Flow at Standby Power, m³/min(cfm)</b>	48.9(1726)

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

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, fuel consumption, relative load</li> <li>• Oil pressure, water temperature, 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;outputs</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> </ul> </li> <li>• <b>Alternator</b> <ul style="list-style-type: none"> <li>-Permanent magnet generator (PMG)</li> <li>-Upgrade to 3 phase sensing AVR</li> <li>-Qadrature droop kit</li> <li>-Anti-condensation heater</li> <li>-Air inlet filters</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)
Fuel pre-filter water separator	(1)
Air filter	(1)
Fan belt set	(1)
Alternator belt set	(1)

General Information
<b>Documentation</b> Engine instruction book-English Alternator manual- English Wiring diagram

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