



# KMGP-435-1 GENSET

Generating Set Powered By & Perkins STAMFORD LEROY-SOMER

Output Katings		
Frequency, Speed/Volt	Prime Power	Standby Power
1800rpm,60 Hz/416-440V	320KWe / 400KVA	348KWe / 435KVA

Genset Specifications	
Engine Make & Model	Perkins 2206A-E13TAG3
Origin	USA
<b>Alternator Type</b>	S4L1D-E41/TAL046H
Control Panel	Deep Sea - 7310 MKII
Circuit Breaker Type	3 Pole MCCB
Tropical Cooling System	
Digital Electronic Governor	
Turbocharged	
Exceptional Power to Weight R	atio

Fuel System (prime)	50%	75%	100%
1800rpm, 60 Hz (L/hr)	43	62	81

## **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 MGI-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 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	6 In Line
Cycle	4 Stroke
Aspiration	Turbocharged
Injection	Direct
Bore, mm	130
Stroke, mm	157
Displacement,I	12.5
Compression Ratio	16.3:1
Starting	24V Electric
Alternators, Amps	24V/70A

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%
No. of Phases	3
No. of Poles	4

Dimensions (m) & Weights (kg)					
	L	W	н	Weight	Tank Capacity(L)
Open	3.5	1.13	1.99	2760	385
Enclosed	4.85	1.47	2.35	4535	554

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	I800rpm
Alternator Efficiency	93.4%
Engine Power Prime Power, KWm(hp) Standby Power, KWm(hp)	349(468) 381(511)
<b>Alternator</b> Prime Power, KWe	320

Lubrication System	I800rpm
Oil Consumption (I/hr)	0.15% of fuel consumption at full load
Oil Sump Capacity,I	38
Oil System Capacity Include Filters,I	40

Cooling System	I800rpm	
Heat Radiation from Engine and Alternator, Power KW	49.6	
Heat Rejection to Coolant and Lube Oil at Standby Power, KW	139.5	4
Radiator Cooling Air Flow, m <sup>3</sup> /min (cfm)	716(25285)	1
Coolant Capacity, I	51.4	

Intake & Exhaust System	I 800rpm
Air Flow Combustion at Standby Power, m³/min(cfm)	29(1024)
Heat Rejection Exhaust at Standby Power, KW	273.7
Exhaust Gas Temperature at Standby °C	660
Max Allowable Back Pressure in Exhaust Line, Kpa	10
Exhaust Gas Flow at Standby Power, m³/min(cfm)	73.5(2595)

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

**Genuine Oil** 

Control	Danal	D	
Control			Hates

- 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	(2)
Fuel filter	(1)
Fuel pre-filter water separator	(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

