



KMGP-1900 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	1368KWe/1710KVA	1508KWe/1885KVA

Engine Technical Data

No. of Cylinders / Alignment	12V/60°
Cycle	4 Stroke
Aspiration	Turbocharged
Injection	Direct
Bore, mm	160
Stroke, mm	190
Displacement, l	45.842
Compression Ratio	13:1
Starting	24V Electric
Alternators, Amps	24V/40A

Genset Specifications

Engine Make & Model	Perkins 4012-46TAG3A
Origin	UK
Alternator Type	S7L1D-D4I
Control Panel	Deep Sea - 7310 MKII
Circuit Breaker Type	3 Pole ACB
Tropical Cooling System	
Digital Electronic Governor	
Turbocharged	
Exceptional Power to Weight Ratio	
Fuel System (prime)	50% 75% 100%
1800rpm, 60Hz (L/hr)	185 277 356

Alternator Technical Data

No. of Bearings	Single Bearing
Insulation System	Class H
Excitation	PMG
Voltage Regulator	MX34I
Protection	IP23
Temperature Rise, °C	Prime 125/40 Standby 150/40
Regulation	±1.0%
No. of Phases	3
No. of Poles	4

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. 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. $1 \text{ hp} = 1 \text{ kW} \times 1.36$

Dimensions (m) & Weights (kg)

	L	W	H	Weight	Tank Capacity(L)
Open	5.50	2.20	2.79	11400	NA

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Performances	1800rpm	Control Panel Readings
Alternator Efficiency	95.4%	• AC volts, AC currents, DC volts, frequency, rpm, hour counter, power factor.
Engine Power Prime Power, KWm(hp) Standby Power, KWm(hp)	1440(1931) 1583(2123)	• 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&outputs • Upgradable for GSM network connection, Signal SMS messages.
Alternator Prime Power, KWe	1455	

Lubrication System	1800rpm	Optional Equipment
Oil Consumption (l/hr)	0.2% of fuel consumption	• Engine -Coolant heater -Oversize batteries -Extra fuel pre-filter water separator
Oil Sump Capacity, l	157.5	• Alternator -12 wire reconnectable stator/terminal arrangement -Upgrade to AVR MX321 -Quadrature droop kit -Anti-condensation heater -Air inlet filters
Oil System Capacity Include Filters, l	177	• General -Upgrade to modular controller for paralleling -Upgrade to ACB -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.

Cooling System	1800rpm	Optional Equipment
Heat Radiation from Engine and Alternator, Power KW	108	
Heat Rejection to Coolant and Lube Oil at Standby Power, KW	586	
Radiator Cooling Air Flow, m³/min (cfm)	2046(72253)	
Coolant Capacity, l	207	

Intake & Exhaust System	1800rpm	Spare Parts Kit (Optional)	Genuine - Perkins
Air Flow Combustion at Standby Power, m³/min(cfm)	145(5120)	Oil filter, full flow	(3)
Heat Rejection Exhaust at Standby Power, KW	1287	Fuel filter	(1)
Exhaust Gas Temperature at Standby °C	434	Air filter	(2)
Max Allowable Back Pressure in Exhaust Line, Kpa	5.0	Fan belt set	(1)
Exhaust Gas Flow at Standby Power, m³/min(cfm)	336(11865)	Alternator belt set	(1)

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.

