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KMGP1900 GENSET

Generating Set Powered By  Perkins  STAMFORD LEROY-SOMER™

Output Ratings			Engine Technical Data		
Speed, Frequency/Volt	Prime Power	Standby Power	No. of Cylinders / Alignment	12V/60°	
1500rpm, 50 Hz / 400V	1380KWe/1725KVA	1516KWe/1895KVA	Cycle	4 Stroke	
Genset Specifications			Aspiration	Turbocharged	
Engine Make & Model	Perkins 4012-46TAG3A		Injection	Direct	
Origin	UK		Bore, mm	160	
Alternator Type	S7LID-F4I		Stroke, mm	190	
Control Panel	Deep Sea - 7310 MKII		Displacement, l	45.842	
Circuit Breaker Type	3Pole ACB		Compression Ratio	13:1	
Tropical Cooling System			Starting	24V Electric	
Digital Electronic Governor			Alternators, Amps	24V/40A	
Turbocharged			Alternator Technical Data		
Exceptional Power to Weight Ratio			No. of Bearings	Single Bearing	
Fuel System (prime)	50%	75%	Insulation System	Class H	
1500rpm, 50 Hz (L/hr)	187	275	Excitation	PMG	
		370	Voltage Regulator	MX34I	
International Standards			Protection	IP23	
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 I359, BS 6861 I, B En 61000-6-2:2001			Temperature Rise, °C	Prime 125/40 Standby 150/40	
			Regulation	±1.0%	
			No. of Phases	3	
			No. of Poles	4	
Dimensions (m) & Weights (kg)					
	L	W	H	Weight	Tank Capacity(L)
Open	5.50	2.20	2.79	11400	N/A

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



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Performances	1500rpm	Control Panel Readings
Alternator Efficiency	95.8%	
Engine Power		
Prime Power, KWm(hp)	(1440)1931	• AC volts, AC currents, DC volts, frequency, rpm, hour counter, power factor.
Standby Power, KWm(hp)	(1583)2123	• Low oil pressure, high water temperature, boost pressure and temperature, KW, KWh, KVA, KVAR, fuel consumption, relative load
Alternator		• Oil pressure, water temperature, low oil level, high oil temperature
Prime Power, KWe	1520	• 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.
Lubrication System	1500rpm	Optional Equipment
Oil Consumption (l/hr)	0.92	• Engine
Oil Sump Capacity, l	159	-Coolant heater
Oil System Capacity Include Filters, l	177	-Oversize batteries
		-Extra fuel pre-filter water separator
Cooling System	1500rpm	• Alternator
Heat Radiation from Engine and Alternator, Power KW	123	-12 wire reconnectable stator/terminal arrangement
Heat Rejection to Coolant and Lube Oil at Standby Power, KW	625	-Upgrade to AVR MX321
Radiator Cooling Air Flow, m ³ /min	2004(70770)	-Quadrature droop kit
Coolant Capacity, l	210	-Anti-condensation heater
		-Air inlet filters
Intake & Exhaust System	1500rpm	• General
Air Flow Combustion at Standby Power, m³/min	135	-upgrade to modular controller for paralleling -
Heat Rejection Exhaust at Standby Power, KW	1200	-Battery charger
Exhaust Gas Temperature at Standby °C	480	-Automatic transfer switch
Max Allowable Back Pressure in Exhaust Line, Kpa	5.0	Fuel level switch High / Low for alarm and control
Exhaust Gas Flow at Standby Power, m³/min	350	-Fuel transfer pump Automatic / Manual
Accessories		-Residential grade silencer
Standard Silencer	Anti-Vibration Pads Genuine	-Weather protective and acoustic enclosure
Stainless Steel Flexible	Coolant 'Ready Mix'	
Genuine Oil		
Spare Parts Kit (Optional)	Genuine - Perkins	
Oil filter, full flow	(3)	
Fuel filter	(1)	
Air filter	(2)	
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		