



KMGP-20 GENSET

Generating Set Powered By Perkins



Image for illustration purposes only

STAMFORD LEROY-SOMER™

Output Ratings

Speed, Frequency/Volt	Prime Power	Standby Power
1800rpm, 60 Hz / 416V	14.4KWe / 18KVA	16KWe / 20kVA

Genset Specifications

Engine Make & Model Perkins 403A-I5G2

Origin UK

Alternator Type S0L2-G1/TAL040F

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)	2.25	3.10	4.32

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 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 84

Stroke, mm 90

Displacement, l 1.496

Compression Ratio 22.5:1

Starting 12V Electric

Alternators, Amps 12V/65A

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 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	1.25	0.52	1.26	375	36
Enclosed	1.85	0.95	1.22	665	80

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Performances 1800rpm	
Alternator Efficiency	86.5%
Engine Power	
Prime Power, KWm(hp)	16(21)
Standby Power, KWm(hp)	18(24)
Alternator	
Prime Power, KWe	16.9

Lubrication System 1800rpm	
Oil Consumption (l/hr)	0.1% of fuel consumption
Oil Sump Capacity, l	6
Oil System Capacity Include Filters, l	-

Cooling System 1800rpm	
Heat Radiation from Engine and Alternator, Power KW	4.7
Heat Rejection to Coolant and Lube Oil at Standby Power, KW	13.7
Radiator Cooling Air Flow, m³/min (cfm)	48.6(1716)
Coolant Capacity, l	6

Intake & Exhaust System 1800rpm	
Air Flow Combustion at Standby Power, m³/min(cfm)	-
Heat Rejection Exhaust at Standby Power, KW	17.2
Exhaust Gas Temperature at Standby °C	590
Max Allowable Back Pressure in Exhaust Line, Kpa	10.2
Exhaust Gas Flow at Standby Power, m³/min(cfm)	-

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

Control Panel Readings
• AC volts, AC currents, DC volts, frequency, rpm, hour counter, power factor. • Low oil pressure, high water temperature, boost pressure and temperature, KW, KWh, KVA, KVAR • Oil pressure, 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&output • Upgradable for GSM network connection, Signal SMS messages.

Optional Equipment
• Engine -Coolant heater -Oversize batteries -Extra fuel pre-filter water separator -Battery Disconnect Switch -Electrical Governor • Alternator -Excitation Boost System (EBS) -Upgrade to 3 phase sensing AVR -Qadrature droop kit -Anti-condensation heater -Air inlet filter • 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	(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.

