

KMGP-55 GENSET

Generating Set Powered By  Perkins  STAMFORD LEROY-SOMER™



Output Ratings

Speed, Frequency/Volt	Prime Power	Standby Power
1800rpm, 60 Hz/440V	40KWe / 50KVA	44KWe / 55KVA

Engine Technical Data

No. of Cylinders / Alignment	3 In Line
Cycle	4 Stroke
Aspiration	Turbocharged
Injection	Direct
Bore, mm	105
Stroke, mm	127
Displacement, l	3.3
Compression Ratio	17.25:1
Starting	12V Electric
Alternators, Amps	12V/65A

Genset Specifications

Engine Make & Model	Perkins 1103A-33TGI
Origin	UK
Alternator Type	SIL2-NI/TAL042F
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)	7.1 9.9 12.9

International Standards

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



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

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 163/27
Regulation	±1.0%
No. of Phases	3
No. of Poles	4

Dimensions (m) & Weights (kg)

	L	W	H	Weight	Tank Capacity(L)
Open	1.75	0.72	1.21	810	90
Enclosed	2.26	0.96	1.27	1310	145

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Performances	1800rpm
Alternator Efficiency	90.4%
Engine Power	
Prime Power, KWm(hp)	48.8(65.5)
Standby Power, KWm(hp)	53.9(72)
Alternator	
Prime Power, KWe	40.3

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
- Upgradable for GSM network connection, Signal SMS messages.

Lubrication System	1800rpm
Oil Consumption (l/hr)	0.150% of fuel consumption
Oil Sump Capacity, l	7.8
Oil System Capacity Include Filters, l	8.3

Optional Equipment

- **Engine**
 - Coolant heater
 - Oversize batteries
 - Extra fuel pump
 - Battery Disconnector Switch
 - Electrical Governor
- **Alternator**
 - Excitation Boost System (EBS)
 - Upgrade to 3 phase sensing AVR
 - Quadrature droop kit
 - Anti-condensation heater
- **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.

Cooling System	1800rpm
Heat Radiation from Engine and Alternator, Power KW	9
Heat Rejection to Coolant and Lube Oil at Standby Power, KW	34
Radiator Cooling Air Flow, m³/min (cfm)	70(2472)

Intake & Exhaust System	1800rpm
Air Flow Combustion at Standby Power, m³/min(cfm)	3.9(137.7)
Heat Rejection Exhaust at Standby Power, KW	43
Exhaust Gas Temperature at Standby °C	551
Max Allowable Back Pressure in Exhaust Line, Kpa	15.0
Exhaust Gas Flow at Standby Power, m³/min(cfm)	9.5(335.4)

Spare Parts Kit (Optional) Genuine - Perkins

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Fuel Filter	(I)
Air Filter	(I)
Fan belt set	(I)
Alternator belt set	(I)

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.

