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KMGP-100 GENSET

Generating Set Powered By **PERKINS** **STAMFORD LEROY-SOMER™**

Output Ratings

Speed, Frequency/Volt	Prime Power	Standby Power
1800rpm, 60 Hz / 416V	73KW _e / 91KVA	80KW _e / 100KVA

Genset Specifications

Engine Make & Model	Perkins I104A-44TG2
Origin	UK
Alternator Type	UCI224G
Control Panel	Deep Sea - 6110MKIII
Circuit Breaker Type	3 Pole MCCB
Tropical Cooling System	
Mechanical Governor	
Electrical Stop Solenoid, Energized to Run	
Compact Size	
Fuel System (prime)	50% 75% 100%
1800rpm, 60Hz (L/hr)	11.9 16.9 22.3

International Standards

Engine conform to ISO 9001:2000, ISO 14001, ISO10054, ISO 3046, BS 5514, DIN 6271. Alternator conform 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. A10 % 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	Turbocharged
Injection	Direct
Bore, mm	105
Stroke, mm	127
Displacement, l	4.4
Compression Ratio	17.25:1
Starting	12V Electric
Alternators, Amps	12V/65A

Alternator Technical Data

No. of Bearings	Single Bearing
Insulation System	Class H
Excitation	Self Excited
Voltage Regulator	AS440
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	2.05	0.72	1.29	975	95
Enclosed	2.83	1.14	1.39	1615	180

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		1800rpm
Alternator Efficiency		90.5%
Engine Power		
Prime Power, KWm(hp)		82(109.9)
Standby Power, KWm(hp)		90.2(121)
Alternator		
Prime Power, KW		75

Lubrication System		1800rpm
Oil Consumption (l/hr)		0.15% of fuel consumption
Oil Sump Capacity, l		7
Oil System Capacity Include Filters, l		8

Cooling System		1800rpm
Heat Radiation from Engine and Alternator, Power KW		15
Heat Rejection to Coolant and Lube Oil at Standby Power, KW		57
Radiator Cooling Air Flow, m³/min (cfm)		111(3919.9)
Coolant Capacity, l		13

Intake & Exhaust System		1800rpm
Air Flow Combustion at Standby Power, m³/min(cfm)		6.5(230)
Heat Rejection Exhaust at Standby Power, KW		71
Exhaust Gas Temperature at Standby °C		560
Max Allowable Back Pressure in Exhaust Line, Kpa		15.0
Exhaust Gas Flow at Standby Power, m³/min(cfm)		15.85(560)

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

Control Panel Readings
<ul style="list-style-type: none"> • 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, 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.

Optional Equipment
<ul style="list-style-type: none"> • 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	(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.

