



KMGP-945 GENSET

Generating Set Powered By  Perkins 

Image for illustration purposes only



Output Ratings

Speed, Frequency/Volt	Prime Power	Standby Power
1800rpm, 60 Hz / 416V	660KWe / 850kVA	756KWe / 945kVA

Engine Technical Data

No. of Cylinders / Alignment	6 In Line
Cycle	4 Stroke
Aspiration	Turbocharged
Injection	Direct
Bore, mm	160
Stroke, mm	190
Displacement, l	22.921
Compression Ratio	13.6:1
Starting	24V Electric
Alternators, Amps	24V/70A

Genset Specifications

Engine Make & Model	Perkins 4006-23TAG3A
Origin	UK
Alternator Type	S6L1D-C4I/TAL049C
Control Panel	Deep Sea - 7310 MKII
Circuit Breaker Type	3 Pole MCCB
Tropical Cooling System	
Digital Electronic Governor	
Turbocharged	
Exceptional Power to Weight Ratio	

Fuel System (prime)	50%	75%	100%
1800rpm, 60Hz (L/hr)	96	144	200

International Standards

Alternator 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	PMG/Self Excited
Voltage Regulator	MX341/R150
Protection	IP23
Temperature Rise, °C	Prime 125/40
Regulation	$\pm 1.0\% - \pm 0.8\%$
No. of Phases	3
No. of Poles	4

Dimensions (m) & Weights (kg)

	L	W	H	Weight	Tank Capacity(L)
Open	3.85	1.69	2.25	6300	NA
Enclosed	6.52	2.15	3.12	9300	NA

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

Performances	1800rpm
Alternator Efficiency	94.5%
Engine Power	
Prime Power, KWm(hp)	715(959)
Standby Power, KWm(hp)	795(1066)
Alternator	
Prime Power, KWe	700

Lubrication System	1800rpm
Oil Consumption (l/hr)	0.25% of fuel consumption
Oil Sump Capacity,l	-
Oil System Capacity Include Filters,l	113.4

Cooling System	1800rpm
Heat Radiation from Engine and Alternator, Power KW	90
Heat Rejection to Coolant and Lube Oil at Standby Power, KW	330
Radiator Cooling Air Flow, m ³ /min (cfm)	1140(40258)
Coolant Capacity, l	105

Intake & Exhaust System	1800rpm
Air Flow Combustion at Standby Power, m ³ /min(cfm)	78(2554)
Heat Rejection Exhaust at Standby Power, KW	759
Exhaust Gas Temperature at Standby °C	500
Max Allowable Back Pressure in Exhaust Line, Kpa	6.0
Exhaust Gas Flow at Standby Power, m ³ /min(cfm)	209(7380)

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, 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
- Upgradable for GSM network connection, Signal SMS messages.

Optional Equipment

Spare Parts Kit (Optional)	Genuine - Perkins
□ □ □ □ □ □ □ □ □ □ □ □	(3)
□ □ □ □ □ □ □	(1)
Air Filter	(2)
Fan belt set	(1)
Alternator belt set	(1)

General Information

Documentation

Documentation
Engine instruction book-English
Alternator manual- English
Wiring diagram

Warranty

Warranty One year with unlimited hours against all defects in material or workmanship, subject to the terms and conditions of the Manufacturer's warranty.