



KMGVP-100 GENSET

Generating Set Powered By **VOLVO PENTA**

Output Ratings

Speed,Frequency/Volt	Prime Power	Standby Power
1800rpm, 60 Hz/416V	72KWe/90KVA	80KWe/100KVA

Genset Specification

Engine Make & Model	Volvo Penta TAD531GE		
Origin	GERMANY		
Alternator Type	UCI224G		
Control Panel	Deep Sea - 6110 MKIII		
Circuit Breaker Type	3 Pole MCCB		
Tropical Cooling System			
Mechanical Governor			
Electrical Stop Solenoid, Energized to Run			
Emission Controlled			
Fuel System (prime)	50%	75%	100%
1800rpm, 60Hz (L/hr)	13.8	19.7	25.9

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, 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**



Image for illustration purposes only

STAMFORD LEROY-SOMER™

Engine Technical Data

No. of Cylinders / Alignment	4 In Line
Cycle	4 Stroke
Aspiration	Turbocharged
Injection	Mechanical
Bore, mm	108
Stroke, mm	130
Displacement, l	4.76
Compression Ratio	18:1
Starting	12V Electric
Alternators, Amps	12V/55A

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	2.49	0.89	1.51	1185	115
Enclosed	3.66	1.13	1.69	1930	195

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)	90.7(123)
Standby Power, KWm(hp)	100.8(137)
Alternator	
Prime Power, KW _e	75

Lubrication System 1800rpm	
Oil Consumption (l/hr)	0.08
Oil Sump Capacity, l	11
Oil System Capacity Include Filters, l	13

Cooling System 1800rpm	
Heat Radiation from Engine and Alternator, Power KW (Standby)	11
Heat Rejection to Coolant and Lube Oil at Standby Power, KW	53.3
Radiator Cooling Air Flow, m³/s	1.9
Coolant Capacity, l	12.5

Intake & Exhaust System 1800rpm	
Air Flow Combustion at Standby Power, m³/min(cfm)	7.75(274)
Heat Rejection Exhaust at Standby Power, KW	92
Exhaust Gas Temperature at Standby °C	516
Max Allowable Back Pressure in Exhaust Line, Kpa	7.0
Exhaust Gas Flow at Standby Power, m³/min(cfm)	22.1(781)

Accessories	
Oil Drain Pump	Standard Silencer
Stainless Steel Flexible	Anti-Vibration Pads
Genuine Oil (Volvo Penta)	Volvo Penta 'Ready Mix'

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 - Configurable inputs&outputs • Upgradable for GSM network connection, Signal SMS messages.

Optional Equipment
• Engine -Coolant heater -Oversize batteries -Extra fuel pre-filter water separator -Battery disconnect switch • Alternator -Permanent magnet generator (PMG) -Upgrade to 3 phase sensing AVR -Quadrature 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 - Volvo Penta
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

