



## KMGVP-145 GENSET

Generating Set Powered By **VOLVO PENTA**



Image for illustration purposes only

**STAMFORD LEROY-SOMER™**

### Output Ratings

Speed,Frequency/Volt	Prime Power	Standby Power
1800rpm, 60 Hz /416V	104KWe/130KVA	114KWe/142KVA

### Genset Specification

Engine Make & Model	Volvo Penta TAD532GE
Origin	GERMANY
Alternator Type	UCI274D
Control Panel	Deep Sea - 6110 MKIII
Circuit Breaker Type	3 Pole MCCB

### Tropical Cooling System

Electronic Governor with Volvo Penta EDC4

Electrical Stop Solenoid, Energized to Run

Emission Controlled

Fuel System (prime)	50%	75%	100%
1800rpm, 60Hz (L/hr)	16.3	23.9	32.4

### 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. 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	Electronic
Bore, mm	108
Stroke, mm	130
Displacement, l	4.76
Compression Ratio	17.5:1
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	2.40	0.89	1.51	1280	115
Enclosed	3.66	1.17	1.69	2025	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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**VOLVO  
PENTA**

**STAMFORD**

**LEROY-SOMER™**

Performances	1800rpm
<b>Alternator Efficiency</b>	90.5%
<b>Engine Power</b>	
Prime Power, KWm(hp)	114(155)
Standby Power, KWm(hp)	124(168)
<b>Alternator</b>	
Prime Power, KW <sub>e</sub>	105

Control Panel Readings
<ul style="list-style-type: none"> <li>• AC volts, AC currents, DC volts, frequency, rpm, hour counter, power factor.</li> <li>• Low oil pressure, high water temperature, boost pressure and temperature, KW, KWh, KVA, KVAR, fuel consumption, relative load</li> <li>• Oil pressure, water temperature, low oil level, high oil temperature</li> <li>• DC alternator failure, over speed, over crank (Fail to start), over under voltage, over under current, any sensor failure</li> <li>• Low coolant level - Configurable inputs&amp;outputs</li> <li>• Upgradable for GSM network connection, Signal SMS messages.</li> </ul>

Lubrication System	1800rpm
<b>Oil Consumption (l/hr)</b>	
Prime Power	0.08
<b>Oil Sump Capacity, l</b>	11
<b>Oil System Capacity Include Filters, l</b>	13

Optional Equipment
<ul style="list-style-type: none"> <li>• <b>Engine</b> <ul style="list-style-type: none"> <li>-Coolant heater</li> <li>-Oversize batteries</li> <li>-Extra fuel pre-filter water separator</li> <li>-Battery disconnect switch</li> </ul> </li> <li>• <b>Alternator</b> <ul style="list-style-type: none"> <li>-Permanent magnet generator (PMG)</li> <li>-Upgrade to 3 phase sensing AVR</li> <li>-Qadrature droop kit</li> <li>-Anti-condensation heater</li> <li>-Air inlet filters</li> </ul> </li> <li>• <b>General</b> <ul style="list-style-type: none"> <li>-Upgrade to modular controller for paralleling</li> <li>-Upgrade to 4 pole circuit breaker</li> <li>-Battery charger</li> <li>-Automatic transfer switch</li> <li>-Fuel level switch High / Low for alarm and control</li> <li>-Fuel transfer pump Automatic / Manual</li> <li>-Residential grade silencer</li> <li>-Weather protective and acoustic enclosure.</li> </ul> </li> </ul>

Cooling System	1800rpm
<b>Heat Radiation from Engine and Alternator, Power KW (Standby)</b>	14
<b>Heat Rejection to Coolant and Lube Oil at Standby Power, KW</b>	68
<b>Radiator Cooling Air Flow, m³/s</b>	3.6
<b>Coolant Capacity, l</b>	23.8

Intake & Exhaust System	1800rpm
<b>Air Flow Combustion at Standby Power, m³/min(cfm)</b>	9.6(339)
<b>Heat Rejection Exhaust at Standby Power, KW</b>	116
<b>Exhaust Gas Temperature at Standby °C</b>	528
<b>Max Allowable Back Pressure in Exhaust Line, Kpa</b>	5.0
<b>Exhaust Gas Flow at Standby Power, m³/min(cfm)</b>	27.6(973)

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)

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

## 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

