



Image for illustration purposes only

## KGMVP220-1 GENSET

Generating Set Powered By **VOLVO PENTA STAMFORD LEROY-SOMER**

### Output Ratings

Speed,Frequency/Volt	Prime Power	Standby Power
1500rpm, 50 Hz /400V	160KWe / 200KVA	176KWe / 220KVA

### Genset Specification

Engine Make & Model	Volvo Penta TAD840GE-B		
Origin	India		
Alternator Type	UCI274H/TAL044M		
Control Panel	Deep Sea - 6110 MKIII		
Circuit Breaker Type	3 Pole MCCB		
Tropical Cooling System			
Fully Electronic with Volvo Penta EMS2			
Emission Compliant			
CANBUS SAEJ1939 Interface			
Fuel System (prime)	50%	75%	100%
I500rpm, 50 Hz (L/hr)	22.7	33.7	45.6

### International Standards

Engine conform to ISO 9001 2000, ISO 14001, ISO 10054, 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.  $1 \text{ hp} = 1 \text{ kW} \times 1.36$

### Engine Technical Data

No. of Cylinders / Alignment	6 In Line
Cycle	4 Stroke
Aspiration	Turbocharged
Injection	Electronic
Bore, mm	110
Stroke, mm	135
Displacement, l	7.7
Compression Ratio	17.5:1
Starting	24V Electric
Alternators, Amps	24V/110A

### Alternator Technical Data

No. of Bearings	Single Bearing
Insulation System	Class H
Excitation	Self Excited
Voltage Regulator	AS440/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	3.00	1.55	1.05	2250	300
Enclosed	4.45	1.40	1.90	3150	340

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	1500rpm
<b>Alternator Efficiency</b>	93.3%
<b>Engine Power</b>	
Prime Power, KWm(hp)	177(241)
Standby Power, KWm(hp)	194(264)
<b>Alternator</b>	
Prime Power, KW <sub>e</sub>	160

Lubrication System	1500rpm
<b>Oil Consumption (l/hr)</b>	
Prime Power	0.02
<b>Oil Sump Capacity, l</b>	25
<b>Oil System Capacity Include Filters, l</b>	27

Cooling System	1500rpm
<b>Heat Radiation from Engine and Alternator, Power KW (Standby)</b>	7
<b>Heat Rejection to Coolant and Lube Oil at Standby Power, KW</b>	90
<b>Radiator Cooling Air Flow, m³/s</b>	6.05
<b>Coolant Capacity, l</b>	41

Intake & Exhaust System	1500rpm
<b>Air Flow Combustion at Standby Power, m³/min(cfm)</b>	15.1(533)
<b>Heat Rejection Exhaust at Standby Power, KW</b>	157
<b>Exhaust Gas Temperature at Standby °C</b>	481
<b>Max Allowable Back Pressure in Exhaust Line, Kpa</b>	10
<b>Exhaust Gas Flow at Standby Power, m³/min(cfm)</b>	37(1307)

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

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;output</li> <li>• Upgradable for GSM network connection, Signal SMS messages.</li> </ul>

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>-Quadrature droop kit</li> <li>-Anti-condensation heater</li> <li>-Air inlet filter</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>

Spare Parts Kit (Optional)	Genuine - Volvo Penta
Oil filter , full fl w	(1)
Fuel filter water separator	(1)
Fuel filter	(2)
Air filter	(1)
Fan belt set	(1)
Alternator belt set	(1)

General Information
<b>Documentation</b> Engine instruction book-English Alternator manual- English Wiring diagram

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