



## KMGVP-500-1 GENSET

Generating Set Powered By **VOLVO PENTA**

**STAMFORD LEROY-SOMER™**



Image for illustration purposes only

### Output Ratings

Speed,Frequency/Volt	Prime Power	Standby Power
1800rpm, 60 Hz /416V	364KW <sub>e</sub> /455KVA	400KW <sub>e</sub> /500KVA

### Genset Specification

Engine Make & Model	Volvo Penta TAD1345GE -B
Origin	SWEDEN
Alternator Type	S4LID-F41/TAL0473A
Control Panel	Deep Sea - 7310 MKII
Circuit Breaker Type	3Pole MCCB

### Tropical Cooling System

Fully Electronic with Volvo Penta EMS2

### Emission Compliant

CANBUS SAEJ1939 Interface

Fuel System (prime)	50%	75%	100%
1800rpm, 60Hz (L/hr)	48.7	71.6	95.5

### 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, 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	6 In Line
Cycle	4 Stroke
Aspiration	Turbocharged
Injection	Electronic
Bore, mm	131
Stroke, mm	158
Displacement, l	12.78
Compression Ratio	18.1:1
Starting	24V Electric
Alternators, Amps	24V/80A

### Alternator Technical Data

No. of Bearings	Single Bearing
Insulation System	Class H
Excitation	Self Excited
Voltage Regulator	AS440/R150
Protection	IP23
Temperature Rise, °C	Prime 125/40
Regulation	±1.0% - ±0.8%
No. of Phases	3
No. of Poles	4

### Dimensions (m) & Weights (kg)

	L	W	H	Weight	Tank Capacity(L)
Open	3.24	1.20	1.76	3345	380
Enclosed	4.51	1.45	2.35	4895	500

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Performances	1800rpm
<b>Alternator Efficiency</b>	93.4%
<b>Engine Power</b>	
Prime Power, KWm(hp)	392(533)
Standby Power, KWm(hp)	431(586)
<b>Alternator</b>	
Prime Power, KWm	364

Lubrication System	1800rpm
<b>Oil Consumption (l/hr)</b>	0.05
<b>Oil Sump Capacity, l</b>	30
<b>Oil System Capacity Include Filters, l</b>	36

Cooling System	1800rpm
<b>Heat Radiation from Engine and Alternator, Power KW (Standby)</b>	23
<b>Heat Rejection to Coolant and Lube Oil at Standby Power, KW</b>	180
<b>Radiator Cooling Air Flow, m³/s</b>	8.1
<b>Coolant Capacity, l</b>	44

Intake & Exhaust System	1800rpm
<b>Air Flow Combustion at Standby Power, m³/min(cfm)</b>	33(1165)
<b>Heat Rejection Exhaust at Standby Power, KW</b>	324
<b>Exhaust Gas Temperature at Standby °C</b>	490
<b>Max Allowable Back Pressure in Exhaust Pipe, Kpa</b>	10
<b>Exhaust Gas Flow at Standby Power, m³/min(cfm)</b>	82(2896)

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

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>

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 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>

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

General Information
<b>Documentation</b> 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

