



KMGVP650 GENSET VOLVO
Generating Set Powered By PENTA STAMFORD LEROY-SOMER

Output Katings		
Speed,Frequency/Volt	Prime Power	Standby Power
1500rpm, 50 Hz /400V	480KWe /600KVA	524KWe / 655KVA

Engine Make & Model Origin SWEDEN Alternator Type HCI544E/S5LID-E41/TAL04 Control Panel Deep Sea - 7310 MKII		
Alternator Type HCI544E/S5LID-E41/TAL04		
Control Panel Deep Sea - 7310 MKII		
Circuit Breaker Type 3Pole MCCB		
Tropical Cooling System 55°C		
Fully Electronic with Volvo Penta EMS 2		

,					

CANBUS SAEJ1939 Interface

Emission Compliant

Fuel System (prime)	50%	75%	100%
1500rpm, 50 Hz (L/hr)	59.9	88.9	116.7

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 MGI-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 govering 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. I $hp = 1 kW \times 1.36$

Engine Technical Data	
No. of Cylinders / Alignment	6 In Line
Cycle	4 Stroke
Aspiration	Turbocharged
Injection	Electronic
Bore, mm	144
Stroke, mm	165
Displacement,I	16.12
Compression Ratio	16.5:1
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 Standby 163/27
Regulation	±1.0% - ±0.8%
No. of Phases	3
No. of Poles	4

Dimensions (m) & Weights (kg)						
	L	W	н	Weight	Tank Capacity(L)	
Open	3.64	1.13	1.95	3950	390	
Enclosed	4.81	1.46	2.35	5845	549	

For the enclosed type:-

The sound level is around 85 dB(A) @ 3m. The height to be increased by 12cm for the hook

KMGVP650 GENSET_{VOLVO}

Generating Set Powered By PENTA STAMFORD LEROY-SOMER

Performances	I500rpm	
Alternator Efficienc	94.9%	
Engine Power Prime Power, KWm(hp) Standby Power, KWm(hp)	505(687) 556(756)	
Alternator Prime Power, KWe	488	

Lubrication System	I500rpm
Oil Consumption (I/hr)	0.11
Oil Sump Capacity,I	42
Oil System Capacity Include Filters, I	48

Cooling System	I500rpm	
Heat Radiation from Engine and Alternator, Power KW (Standby)	20	
Heat Rejection to Coolant and Lube Oil at Standby Power, KW	218	4
Radiator Cooling Air Flow, m ³ /s	9.1	1
Coolant Capacity, I	61	

Intake & Exhaust System	I 500rpm
Air Flow Combustion at Standby Power, m³/min(cfm)	40.6(1434)
Heat Rejection Exhaust at Standby Power, KW	426
Exhaust Gas Temperature at Standby °C	494
Max Allowable Back Pressure in Exhaust Line, Kpa	10
Exhaust Gas Flow at Standby Power, m ³ / min(cfm)	100.7(3556)
Accessories	
Oil Drain Pump	Standard Silencer
Stainless Steel Flexible	Anti-Vibration Pads

Genuine Oil (Volvo Penta)

Control Panel Readings

- AC volts, AC currents, DC volts, frequency, rpm, hour counter, power factor.
- · Low oil pressure, high water temparature, boost pressure and temperature, KW, KWh, KVA, KVAR, fuel consumption, relative load
- Oil pressure, water temparature, 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&output
- Upgradable for GSM network connection, Signal SMS messages.

Optional Equipment

- Engine
- -Coolant heater
- -Oversize batteries
- -Extra fuel pre-filter water separato
- -Battery disconnector switch
- Alternator
- -Permanent magnet generator (PMG)
- -Upgrade to 3 phase sensing AVR
- -Qadrature droop kit
- -Anti-condensation heater
- -Air inlet filter
- 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 Per
F A	Oil filte , full fl w Oil filte , bypass Fuel filter water separato Fuel filter Air filter Fan belt set Coolant filte Alternator belt set	(2) (1) (1) (1) (1) (1) (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



nta

Genuine Coolant 'Ready Mix'