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KMGVP-350 GENSET

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

Output Ratings

Speed,Frequency/Volt	Prime Power	Standby Power
1800rpm,60Hz/416-440V	256KWe/320KVA	280KWe/350KVA

Genset Specification

Engine Make & Model	Volvo Penta TAD843GE
Origin	India
Alternator Type	S4LID-D41/TAL046F
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)	37	52.9	70.6

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 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	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/R150
Protection	IP23
Temperature Rise, °C	Prime 125/40 Standby 150/40
Regulation	±1.0%
No. of Phases	3
No. of Poles	4

Dimensions (m) & Weights (kg)

	L	W	H	Weight	Tank Capacity(L)
Open	2.99	1.15	1.55	2350	280
Enclosed	4.45	1.40	2.05	2700	320

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Performances		1800rpm
Alternator Efficiency		92.9%
Engine Power		
Prime Power, KWm(hp)		274(373)
Standby Power, KWm(hp)		301(409)
Alternator		
Prime Power, KWe		275

Lubrication System		1800rpm
Oil Consumption (l/hr)		0.02
Oil Sump Capacity, l		25
Oil System Capacity Include Filters, l		27

Cooling System		1800rpm
Heat Radiation from Engine and Alternator, Power KW		-
Heat Rejection to Coolant and Lube Oil at Standby Power, KW		-
Radiator Cooling Air Flow, m³/s		7.4
Coolant Capacity, l		41

Intake & Exhaust System		1800rpm
Air Flow Combustion at Standby Power, m³/min(cfm)		21.8(770)
Heat Rejection Exhaust at Standby Power, KW		-
Exhaust Gas Temperature at Standby °C		459
Max Allowable Back Pressure in Exhaust Line, Kpa		10
Exhaust Gas Flow at Standby Power, m³/min(cfm)		-

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

Control Panel Readings
<ul style="list-style-type: none"> 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
<ul style="list-style-type: none"> Engine <ul style="list-style-type: none"> -Coolant heater -Oversize batteries -Extra fuel pre-filter water separator -Battery disconnect switch Alternator <ul style="list-style-type: none"> -Permanent magnet generator (PMG) -Upgrade to 3 phase sensing AVR -Qadrature droop kit -Anti-condensation heater -Air inlet filters General <ul style="list-style-type: none"> -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	(2)
Oil filter, bypass	(1)
Fuel filter water separator	(1)
Fuel filter	(1)
Air filter	(1)
Fan belt set	(1)
Coolant filter	(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

