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KMGVP-800 GENSET

Generating Set Powered By VOLVO PENTA STAMFORD LEROY-SOMER

Output Ratings

Speed,Frequency/Volt	Prime Power	Standby Power
1800rpm, 60 Hz/416-440V	588KWe/735KVA	640KWe/800KVA

Genset Specification

Engine Make & Model	**Volvo Penta** TWD1645GE
Origin	SWEDEN
Alternator Type	S5L1D-F41/TAL473F
Control Panel	Deep Sea - 7310 MKII
Circuit Breaker Type	3Pole MCCB
Tropical Cooling System	
Fully Electronic with Volvo Penta EMS 2	
Emission Compliant	
CANBUS SAEJ1939 Interface	

Fuel System (prime)	50%	75%	100%
1800rpm, 60Hz (L/hr)	79.9	114.1	149

International Standards

Engine confirm to ISO 9001 2000, ISO 14001, ISO10054, 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 1, B En 61000-6-2:2001

ISO 9001 BUREAU VERITAS Certification — UKAS QUALITY MANAGEMENT

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. **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	144
Stroke, mm	165
Displacement,l	16.12
Compression Ratio	16.8:1
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 & Weights

	L	W	H	Weight	Tank Capacity(L)
Open	3.67	1.43	2.10	4750	500
Enclosed	5.23	1.76	2.50	7100	660

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Performances	1800rpm
Alternator Efficienc	95.0%
Engine Power	
Prime Power, KWm(hp)	619(842)
Standby Power, KWm(hp)	681(927)
Alternator	
Prime Power, KWe	590

Lubrication System	1800rpm
Oil Consumption (l/hr)	0.10
Oil Sump Capacity,l	42
Oil System Capacity Include Filters, l	48

Cooling System	1800rpm
Heat Radiation from Engine and Alternator, Power KW (Standby)	27
Heat Rejection to Coolant and Lube Oil at Standby Power, KW	247
Radiator Cooling Air Flow, m^3/s	15.2
Coolant Capacity, l	150

Intake & Exhaust System	1800rpm
Air Flow Combustion at Standby Power, m^3/min(cfm)	47.63(1682)
Heat Rejection Exhaust at Standby Power, KW	513
Exhaust Gas Temperature at Standby °C	497
Max Allowable Back Pressure in Exhaust Line, Kpa	10
Exhaust Gas Flow at Standby Power, m^3/min(cfm)	115(4075)

Accessories

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

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 Penta
Oil filte , full fl w	(2)
Oil filte , bypass	(1)
Fuel filter water separato	(1)
Fuel filter	(1)
Air filter	(1)
Fan belt set	(1)
Coolant filte	(1)
Alternator belt set	(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

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