



Image for illustration purposes only

KGVP450 GENSET Generating Set Powered By **PENTA STAMFORD**

Output Ratings

Generating Set Model	Prime Power	Standby Power
1500rpm, 50 Hz /400V	361KWe / 451KVA	401KWe / 501KVA
1800rpm, 60 Hz /440V	365KWe / 456KVA	401KWe / 501KVA

Genset Specifications

Engine Make & Model	Volvo Penta TAD1345GE	
Origin	SWEDEN	
Alternator Type	Stamford HCI544C	
Control Panel	Deap Sea - 7310	
Circuit Breaker Type	3 Pole MCCB	
Tropical Cooling System	55°C	
Fully Electronic with Volvo Penta EMS 2		

Emission Compliant

CANBUS SAEJ1939 Interface

Fuel System	50%	75%	100%
1500rpm, 50 Hz	45.95	68.24	90.53
1800rpm, 60Hz	47.83	70	93.80

*Prime Power (I/hr)

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



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 $hp = I kW \times I.36$

Engine Technical Data	
No. of Cylinders / Alignment	6 In Line
Cycle	4 Stroke
Aspiration	Turbocharged
Injection	Electronic
Bore, mm	131
Stroke, mm	158
Displacement,I	12.78
Compression Ratio	18.1:1
Starting	24V Electric
Alternators, Amps	24V/80A

Alternator Technical Data

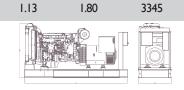
No. of Bearings	Single Bearing
Insulation System	Class H
Excitation	Self Excited
Voltage Regulator	AS440
Protection	IP23
Temperature Rise,°C	125
Regulation	±1.0%
No. of Phases	3
No. of Poles	4

Dimensions & Weights

3.35

Length(m) Width(m) Height(m) Weight(kg) Tank Capacity(L)

405



KGVP450 GENSET_{VOLVO} **STAMFORD** Generating Set Powered By **PENTA**

Performances	1500rpm	l 800rpm
Alternator Efficiency	93.8%	94.1%
Engine Power Prime Power, KWm(hp) Standby Power, KWm(hp)	388(528) 431(586)	392(533) 431(586)
Alternator Prime Power, KWe	400	440

Lubrication System	1500rpm	1800rpm
Oil Consumption (l/hr)	0.04	0.05
Oil Sump Capacity,I	30	
Oil System Capacity Include Filters, I	36	

Cooling System	1500rpm	1800rpm
Heat Radiation from Engine and Alternator, Power KW (Standby)		23
Heat Rejection to Coolant and Lube Oil at Standby Power, KW		180
Radiator Cooling Air Flow, m ³ /s	6.7	8.3
Coolant Capacity, I	44	

Intake & Exhaust System	1500rpm	l800rpm
Air Flow Combustion at Standby Power, m ³ /min(cfm)	27.6(975)	33(1165)
Heat Rejection Exhaust at Standby Power, KW	303	324
Exhaust Gas Temperature at Standby °C	570	490
Max Allowable Back Pres- sure in Exhaust Line, Kpa	10	10
Exhaust Gas Flow at Standby Power, m³/min(cfm)	58.3(2059)	82(2896)

Accessories Oil Drain Pump Standard Silencer **Stainless Steel Flexible** Anti-Vibration Pads Genuine Oil (Volvo Penta) Fuel Tank Base Frame for 8hrs 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&outputs
- Upgradable for GSM network connection, Signal SMS messages.

Optional Equipment

- Engine
- -Coolant heater
- -Oversize batteries
- -Extra fuel pre-filter water separator
- -Battery disconnector switch
- Alternator
- -Permanent magnet generator (PMG)
- -Upgrade to 3 phase sensing AVR
- -Qadrature droop kit

-Anti-condensation heater

- -Air inlet filters
- 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 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

Documentation

Engine instruction book-English Alternator manual- English Wiring diagram

Warranty

One year or 1000 thousand hours whichever elapsed first against all defects in material / or workmanship, subject to the terms and conditions of the Manufacturer's warranty.



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