



Image for illustration purposes only

KGVP400 GENSET

Generating Set Powered By **VOLVO PENTA STAMFORD**

Output Ratings

| Generating Set Model | Prime Power | Standby Power |
|----------------------|-----------------|-----------------|
| 1500rpm, 50 Hz /400V | 329KWe / 412KVA | 362KWe / 452KVA |
| 1800rpm, 60 Hz /440V | 365KWe / 456KVA | 401KWe / 501KVA |

Genset Specifications

| | |
|--|-----------------------|
| Engine Make & Model | Volvo Penta TAD1344GE |
| Origin | SWEDEN |
| Alternator Type | Stamford HCI444F |
| Control Panel | Deap Sea - 7310 |
| Circuit Breaker Type | 3 Pole MCCB |
| Tropical Cooling System | 55° C |
| Fully Electronic with Volvo Penta EMS2 | |

Emission Compliant

CANBUS SAEJ1939 Interface

| Fuel System | 50% | 75% | 100% |
|----------------|-------|-------|-------|
| 1500rpm, 50 Hz | 42.14 | 62.26 | 82.75 |
| 1800rpm, 60Hz | 47.83 | 70 | 93.80 |

*Prime Power (L/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 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

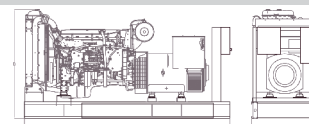
| | |
|-----------------------------|--------------|
| No. of Cylinders /Alignment | 6 In Line |
| Cycle | 4 Stroke |
| Aspiration | Turbocharged |
| Injection | Electronic |
| Bore, mm | 131 |
| Stroke, mm | 158 |
| Displacement,l | 12.78 |
| Compression Ratio | 18.1:1 |
| Starting | 24V Electric |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

Alternator Technical Data

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

Dimensions & Weights

| Length(m) | Width(m) | Height(m) | Weight(kg) | Tank Capacity(L) |
|-----------|----------|-----------|------------|------------------|
| 3.35 | 1.13 | 1.80 | 3230 | 405 |



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| Performances | 1500rpm | 1800rpm |
|------------------------|----------|----------|
| Alternator Efficiency | 93.4% | 93.4% |
| Engine Power | | |
| Prime Power, KWm(hp) | 354(481) | 392(533) |
| Standby Power, KWm(hp) | 389(529) | 431(586) |
| Alternator | | |
| Prime Power, KWe | 320 | 384 |

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

| Cooling System | 1500rpm | 1800rpm |
|---|---------|---------|
| Heat Radiation from Engine and Alternator, Power KW (Standby) | 15 | 23 |
| Heat Rejection to Coolant and Lube Oil at Standby Power, KW | 155 | 180 |
| Radiator Cooling Air Flow, m ³ /s | 6.5 | 8.1 |
| Coolant Capacity, l | 44 | |

| Intake & Exhaust System | 1500rpm | 1800rpm |
|--|------------|----------|
| Air Flow Combustion at Standby Power, m ³ /min(cfm) | 28(989) | 33(1165) |
| Heat Rejection Exhaust at Standby Power, KW | 266 | 324 |
| Exhaust Gas Temperature at Standby °C | 465 | 490 |
| Max Allowable Back Pressure in Exhaust Line, Kpa | 10 | 10 |
| Exhaust Gas Flow at Standby Power, m ³ /min(cfm) | 67.5(2384) | 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 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

- **Engine**
 - Coolant heater
 - Oversize batteries
 - Extra fuel pre-filter water separator
 - Battery disconnect 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.

الفروع:

الحديدة : 03235043
تعز : 04275450
البيضاء : 06532128

ش عمران : 01324686
عدن : 02304073
المكلا : 05327477

الإدارة العامة: 209 ش الزبيرى - صنعاء
ت: 01207594 - 01207470
ف: 01213380 - 01217080