



# **KGVP350 GENSET** Generating Set Powered By **PENTA STAMFORD**

 Output Ratings

 Generating Set Model
 Prime Power
 Standby Power

 1500rpm, 50 Hz /400V
 282KWe / 352KVA
 310KWe / 387KVA

 1800rpm, 60 Hz /440V
 321KWe / 401KVA
 351KWe / 438KVA

#### **Genset Specifications**

Engine Make & Model	Volvo Penta TAD1342GE	
Origin	SWEDEN	
Alternator Type	Stamford S4LID-E41	
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	36.25	52.21	68.89
1800rpm, 60Hz	42.50	61.60	82.55

\*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 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  $hp = I kW \times I.36$  Image for illustration purposes only

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

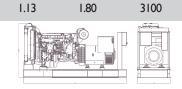
No. of Bearings	Single Bearing
Insulation System	Class H
Excitation	Self Excited
Voltage Regulator	AS440
Protection	IP23
Temperature Rise,°C	125
Regulation	±1.0%
No. of Phases	3
No. of Poles	4

#### **Dimensions & Weights**

3.35

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

405



## KGVP350 GENSET VOLVO **STAMFORD** Generating Set Powered By **PENTA**

Performances	I 500rpm	1800rpm
Alternator Efficiency	93.5%	93.5%
<b>Engine Power</b> Prime Power, KWm(hp) Standby Power, KWm(hp)	303(412) 333(453)	345(469) 377(513)
<b>Alternator</b> Prime Power, KWe	280	336

Lubrication System	1500rpm	1800rpm
<b>Oil Consumption (l/hr)</b> Standby Power	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	-	-
Heat Rejection to Coolant and Lube Oil at Prime Power, KW	34	159
Radiator Cooling Air Flow, m <sup>3</sup> /s	6.7	8.2
Coolant Capacity, I	44	

Intake & Exhaust System	1500rpm	l800rpm
Air Flow Combustion at Standby Power, m <sup>3</sup> /min(cfm)	25.9(915)	28.7(1014)
Heat Rejection Exhaust at Standby Power, KW	213	287
Exhaust Gas Temperature at Standby °C	408	481
Max Allowable Back Pres- sure in Exhaust Line, Kpa	10	10
Exhaust Gas Flow at Standby Power, m³/min(cfm)	57(2013)	69.5(2454)

#### 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),

- ver 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.



Naher El Mott- Beirut- Lebanon Tel:+ 961. 1. 87 00 78, Fax: + 961. 1. 87 47 95, PO.Box: 70268 - Antelias Doha - Qatar Tel: +974 445 030 86 Fax: +974 445 037 86 , 441 61 944 PO.Box: 11857 Erbil - Iraq, Tel: +964 750 30 12 907, Tel: +964 770 04 44 466, info@khonaysser.com, www.khonaysser.com