ACCURATE POWER INDUSTRIAL GENERAL TRADING LLC

VP-350

VOLVO PENTA

STAMFORD

GENERATING SET MODEL WVS 350

Output Ratings	Prime	Standby
400 V,3 ph,50 Hz,1500 rpm	352 kVA	387 kVA
	282 kW	310 kW
480 V,3 ph,60 Hz,1800 rpm	401 kVA	438 kVA
	321 kW	351 kW
		Power Factor : 0.8

ENGINE / TECHNICAL DATA

Engine Make	Volvo Penta
Engine Model	TAD1342GE
Governing Type	Electronic
Number of Cylinders	6
Cylinder Arrangement	Vertical In Line
Bore and Stroke mm	131x158
Displacement / Cubic Capacity ltrs	12.78
Aspiration	Turbocharged
Cycle	4 stroke
Combustion System	Direct Injection
Compression Ratio	18.1:1

STANDARD SPECIFICATIONS

1.
Volvo four stroke heavy duty high performance industrial type diesel engine

2. ENGINE FILTRATION SYSTEM
- Cartridge type dry air filter
- Two cartridge type fuel filters
- Full flow lube oil filter

All filters have replacable elements

3. COOLING RADIATOR
Radiator and cooling fan, complete with safety guards,de-signed to cool the engine at high ambient temperatures(con- sult your dealer for deration factors)

4. EXHAUST SYSTEM
Heavy duty Industrial Exhaust Silencer

Silencer noise reduction level 14 (dB)
Maximum allowable back pressure 10.0(kPa)

5. CIRCUIT BREAKER TYPE
ABB 3 pole MCCB.(4 pole is optional)

6. FUEL SYSTEM
On Generating sets upto 700kVA, the baseframe design is incorporated with an integral fuel tank with a capacity of approx. 8 hours running at full load. The tank is supplied complete with fill cap breather, fuel speed and return lines to the engine and drain plug.

7. ALTERNATOR
7.1 INSULATION SYSTEM
- Insulation : Class H
- All windings are impregnated in either a triple dip thermosetting liquid,oil and acid resisting polyester varnish or vaccum pressure impregnated with a special polyester resin.
- Heavy coat of antitracking varnish additional protection against moisture or condenasation.

7.2 AUTOMATIC VOLTAGE REGULATOR (AVR)
The fully sealed AVR maintains the voltage regulation at ±0.5%. Nominal adjustment by means of a trim pot incorporated on the AVR.

7.3 MOTOR STARTING
An overload capacity equivalent to 300% of the full load impedance at zero power factor can be sustained for 10 sec.,when AREP or PMG option is fitted.

8. MOUNTING ARRANGEMENT
8.1 BASE FRAME
The complete generating set is mounted as a whole on a heavy duty fabricated steel baseframe.

8.2 COUPLING
The engine and alternator are directly coupled by means of an SAE flange.The engine flywheel is flexibly coupled to the alternator rotor.

8.3 ANTI-VIBRATION MOUNTING PADS
Anti-vibration pads are affixed between the engine / alternator feet and the baseframe thus ensuring complete vibration isolation of the rotating assembly.

Address: City avenue Busniess Building Opposite Pullman Residency
Next to Deira city Centre Port Saeed , Deira Dubai UAE
+971 4 294 0033 +971 56 300 0982 +971 50 727 6909
www.accuratepower-group.com

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Frequency and Engine Speed	50Hz & 1500rpm			60Hz & 1800rpm
	Prime			Prime
Gross Engine Power kWm	303			345
Fuel Consumption @50%load l/hr	36.25			42.5
@75%load l/hr	52.21			61.6
@100%load l/hr	68.89			82.55
Oil Consumption (l/hr)	0.04			0.05
Oil Sump Capacity, l	30			30
Heat Rejection at Exhaust (Standby) kW	213			287
Exhaust Temperature °C Standby	408			481
Radiator Cooling Air Flow : m³/s	6.7			8.2
Combustion Air Flow (Standby) : m³/min	25.9			28.7
Exhaust Gas Flow (Standby) : m³/min	57			69.5
Dimension (mm) & Weight (Kg) Length	Width	Height	Weight	
Open 3800	1130	2155	3470	
Soundproof 4400	1710	2570	4887	

ALTERNATOR DATA

Make	Stamford
Model	HCI444E
No. of bearings	1
Insulation Class	H
Total Harmonic Content	On load <5%
Wires	6 / 12
Ingress Protection	IP23
Excitation System	Shunt / Self Excited
Winding Pitch	2/3(n˚6)
AVR Model	R120 / SX440
Overspeed	2250 mn⁻ ¹
Voltage Regulation	±1%
Short Circuit Capacity	-
AREP & PMG Excitation System Available as optional	

STANDARD SPECIFICATIONS

8.4 SAFETY GUARDS
The fan and fan drive along with the battery charging alternator are safety guard protected for personnel protection.

9. FACTORY TESTS
- The generating set is load tested before dispatch.
- All protective devices control functions and site load conditions are simulated.The generator and it's systems are checked before dispatch.

10. EQUIPMENT FINISHING
All mild steel components are fully degreased and painted with powder coated paint to ensure maximum scuff resistance and durability.

11. DOCUMENTATIONS
Operation and Maintenance manual, circuit wiring diagrams and commissioning/fault finding instruction leaflets are accompanied with the generator.

CONTROL PANEL

Make Deep Sea
Model DSE4510

The DSE4510 is an Auto Start Control Module for single genset applications.It includes a backlit LCD display which clearly shows the status of the engine all the times.This module can either be programmed using the front panel or by using the DSE configuration suitr PC software.

Metering and Alarm Indications:

- Generator Frequency
- Underspeed, Overspeed
- Generator volts(L-L,L-N)
- Generator Current
- Engine Oil Pressure
- Engine Coolant Temperature
- Fuel Level
- Hours Run Counter
- Battery Volts
- Fail to start/stop
- Emergency Stop
- Failed to reach loading voltage/frequency
- Charge fail
- Loss of magnetic pick-up signal-Optional
- Low DC Voltage
- CAN diagnostics and CAN fail/error

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