



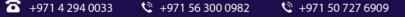
GENERATING SET MODEL WVS 130

Output Ratings	Prime	Standby	
400 V,3 ph,50 Hz,1500 rpm	130 kVA	142 kVA	
	104 kW	114 kW	
480 V,3 ph,60 Hz,1800 rpm	132 kVA	146 kVA	
	106 kW	117 kW	
Power Factor : 0.8			

ENGINE / TECHNICAL DATA

Volvo Penta		
Volvo Penta		
TAD532GE		
Electronic		
4		
Vertical In Line		
108x130		
4.76		
Turbocharged		
4 stroke		
Direct Injection		
17.5:1		

Address: City avenue Busniess Building Opposite Pullman Residency 2 Next to Deira city Centre Port Saeed , Deira Dubai UAE



Powered by :



STANDARD SPECIFICATIONS

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

14 (dB) Silencer noise reduction level 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.

72 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.







Frequency and Engine Speed	50Hz & 1500rpm		60Hz & 1800rpm	
	Prime		Prime	
Gross Engine Power kWm	113			115
Fuel Consumption @50%load l/hr	14.33			15.33
@75%load l/hr	21.18			22.38
@100%load l/hr	28.79			30.39
Oil Consumption (I/hr)	0.08			0.08
Oil Sump Capacity, I	11			11
Heat Rejection at Exhaust (Standby) kW	104			116
Exhaust Temperature °C Standby	532			528
Radiator Cooling Air Flow : m ³ /s	2.9			3.6
Combustion Air Flow (Standby) : m ³ /min	8.03			9.6
Exhaust Gas Flow (Standby) : m³/min	23.2			27.6
Dimension (mm) & Weight (Kg) Length	Width	Height	Weight	
Open 2400	1100	1528	1824	
Soundproof 3510	1210	1970	2374	STANDARD SPECIFICATIONS

ALTERNATOR DATA

Make	Stamford		
Model	UCI274E		
No. of bearings	1		
Insulation Class	Н		
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 / SX460		
Overspeed	2250 mn [−] 1		
Voltage Regulation	±1% / ±1.5%		
Short Circuit Capacity	-		
AREP & PMG Excitation System Available as optional			

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 Model Deep Sea 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 AlarmIndications:

- 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 StopFailed to reach

- loading voltage/frequency
- - Charge fail
 Loss of magnetic pick-up signal-Optional
 Low DC Voltage
 CAN diagnostics and CAN diagnostics and
 - CAN fail/error

Address: City avenue Busniess Building Opposite Pullman Residency 2 Next to Deira city Centre Port Saeed , Deira Dubai UAE