





STAMFORD

GENERATING SET MODEL WVS 180

Output Ratings	Prime	Standby
400 V,3 ph,50 Hz,1500 rpm	186 kVA	206 kVA
	149 kW	165 kW
480 V,3 ph,60 Hz,1800 rpm	206 kVA	227 kVA
	165 kW	181 kW
		P F (00

Power Factor: 0.8

ENGINE / TECHNICAL DATA

Engine Make	Volvo Penta
Engine Model	TAD732GE
Governing Type	Electronic
Number of Cylinders	6
Cylinder Arrangement	Vertical In Line
Bore and Stroke mm	108x130
Displacement / Cubic Capacity Itrs	7.15
Aspiration	Turbocharged
Cycle	4 stroke
Combustion System	Direct Injection
Compression Ratio	18:1

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, designed 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(kP)

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

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.











ACCURATE POWER INDUSTRIAL GENERAL TRADING LLC

Frequency and Engine Speed	50Hz & 1500rpm		cy and Engine Speed 50Hz & 1500rpm 60Hz & 1800rpm		60Hz & 1800rpm
	Pri	me		Prime	
Gross Engine Power kWm	15	9		173	
Fuel Consumption @50%load I/hr	21.	.11		23.97	
@75%load l/hr	30	.8		34.68	
@100%load l/hr	41.	.1		45.45	
Oil Consumption (I/hr)	0.0	08		0.09	
Oil Sump Capacity, I	31			31	
Heat Rejection at Exhaust (Standby) kW	14	4		167	
Exhaust Temperature °C Standby	54	2		515	
Radiator Cooling Air Flow: m³/s	3.9)		4.9	
Combustion Air Flow (Standby) : m³/min	12.	.4		14.4	
Exhaust Gas Flow (Standby): m³/min	35	.1		41.8	
Dimension (mm) & Weight (Kg) Length	Width	Height	Weight		
Open 2400	1100	1528	1980		
Soundproof 3510	1210	1970	2470	STANDARD SPECIFICATIONS	

ALTERNATOR DATA

Make	Stamford	
Model	UCI274G	
No. of bearings	1	
Insulation Class	Н	
Total Harmonic Content	On load < 2%	
Wires	12	
Ingress Protection	IP23	
Excitation System	Shunt / Self Excited	
Winding Pitch	2/3(n°6)	
AVR Model	R250 / SX460	
Overspeed	2250 mn ^{- 1}	
Voltage Regulation	±0.5% / ±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

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 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 pickup signal-Optional
 Low DC Voltage
- CAN diagnostics and CAN fail/error