

ACCURATE POWER INDUSTRIAL GENERAL TRADING LLC



**Prime** 

85 kVA

68 kW

88 kVA

70 kW

Powered by :



## STANDARD SPECIFICATIONS

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

VP-85

2. ENGINE FILTRATION SYSTEM

- Cartridge type dry air filterTwo cartridge type fuel filters

Standby

94 kVA

76 kW

97 kVA

77 kW

Power Factor : 0.8

- · 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(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 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  $\pm 0.5\%$ . Nominal adjustment by means of a trim pot incorporated on the AVR.

#### 73 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

(m) www.accuratepower-group.com

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

# **ENGINE / TECHNICAL DATA**

**GENERATING SET MODEL WVS 85** 

**Output Ratings** 

400 V,3 ph,50 Hz,1500 rpm

480 V,3 ph,60 Hz,1800 rpm

Volvo Penta
TAD530GE
Mechanical
4
Vertical In Line
108x130
4.76
Turbocharged
4 stroke
Direct Injection
18:1





Frequency and Engine Speed	50Hz & 1500rpm			60Hz & 1800rpm
	Prime			Prime
Gross Engine Power kWm	75			76.2
Fuel Consumption @50%load l/hr	10.31			11
@75%load l/hr	14.66			15.39
@100%load l/hr	19.375			20.075
Oil Consumption (I/hr) Standby	0.08			0.08
Oil Sump Capacity, I	11			11
Heat Rejection at Exhaust (Standby) kW	75			75
Exhaust Temperature °C Standby	540			496
Radiator Cooling Air Flow : m <sup>3</sup> /s	1.5			1.9
Combustion Air Flow (Standby) : m <sup>3</sup> /min	5.54			7
Exhaust Gas Flow (Standby) : m³/min	16.3			19.2
Dimension (mm) & Weight (Kg) Length	Width	Height	Weight	
Open 1870	900	1350	1050	
Soundproof 2800	1110	1770	1570	STANDARD SPECIFICATIONS

# **ALTERNATOR DATA**

Make	Stamford		
Model	UCI224G		
No. of bearings	1		
Insulation Class	Н		
Total Harmonic Content	on load < 5%		
Wires	6 / 12		
Ingress Protection	IP23		
Excitation System	Shunt / Slef 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			

**84 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

Malia	D 0
Make	Deep Sea
Model	DSE4510
genset applications. clearly shows the sta module can either b	Auto Start Control Module for single It includes a backlit LCD display which atus of the engine all the times. This e programmed using the front panel or
by using the DSE configuration suitr P	C 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 fail/error

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