









WES 50



WEBER

GENERATING SET MODEL WES 50

Output Ratings	Prime
400 V,3 ph,50 Hz,1500 rpm	50 Kva
	40 kW
	Power Factor : 0.8

ENGINE / TECHNICAL DATA

Engine Make	Volvo Eicher
Engine Model	EE483TCI
Governing Type	Mechanical
Number of Cylinders	4
Rated BHP	65
Bore and Stroke mm	100 X 105
Displacement Itrs	3.3
Electric System	12 V DC
Compression Ratio	17:01
Injection system	Direct
Cylinder arrangement	Inline
Nature of Aspiration	TCI

STANDARD SPECIFICATIONS 1.

Eicher heavy duty high performance industrial type diesel engine

2. ENGINE FILTRATION SYSTEM

- Cartridge type dry air filterTwo 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(consult your dealer for deration factors)

4 EXHAUST SYSTEM

Heavy duty Industrial Exhaust Silencer

Silencer noise reduction level 15 (dB) 10.0(kPa) Maximum allowable back pressure

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.



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

ENGINE / TECHNICAL DATA (continued)

Frequency and Engine Speed	50Hz & 1500rpm
	Prime
No. of Valves / Cyl	2
Cooling system	Liquid
Dimensions (L x W x H) mm	1182x825x1097
Dry Weight kg	390
Noise Level dB(A) (Without Canopy)	94 @ 1 mtr
FIP Make	Bosch Inline
Lube oil sump capacity (Ltrs.)	11
BSFC @ 100% load (gms/hp-Hr)	163
BSFC @ 75% load (gms/hp-Hr)	159
Lube Oil Consumption (% of Fuel Cons.)	0.1

Dimension (mm) & Weight (Kg)	Length	Width	Height	Weight	
Open	1980	900	1350	1150	
Soundproof	2800	1110	1770	1690	STANDARD SPECIFICATIONS
			_		8.4 SAFETY GUARDS

ALTERNATOR DATA

ALTERNATOR DATA					
Make	Leroy Somer TAL / Stamford	 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 			
Model	TAL 042G / UCI224E	 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 and circuit wiring diagrams are accompanied with the generator. 			
No. of bearings	1				
Insulation Class	Н				
Total Harmonic Content	on load < 5%				
Wires	6 / 12	CONTROL PANEL			
Ingress Protection	IP23	Make Deep Sea Model DSE4510 The DSE4510 is an Auto Start Control Module for single genset			
Excitation System	Shunt / Self Excited	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			
Winding Pitch	2/3(n°6)	configuration suitr PC software.			
AVR Model	R120 / SX460	Metering and Alarm Indications: Generator Frequency Emergency Stop			
Overspeed	2250 mn ⁻¹	Underspeed, Overspeed Generator volts(L-L,L-N) Voltage/frequency			
Voltage Regulation	±1% / ±1.5%	Engine Oil Pressure Engine Coolant Temperature Signal-Optional			
Short Circuit Capacity	-	Fuel Level Low DC Voltage Hours Run Counter Battery Volts fail/error			
AREP & PMG Excitation System Available as	Fail to start/stop				



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