

WEBER



WPS 350





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GENERATING SET MODEL WPS 350

Output Ratings	Prime	Standby
400 V,3 ph,50 Hz,1500 rpm	350 kVA	400 kVA
	280 kW	320 kW
480 V,3 ph,60 Hz,1800 rpm	400 kVA	438 kVA
	320 kW	350.4 kW
		Power Factor : 0.8

ENGINE / TECHNICAL DATA

Engine Make	Perkins
Engine Model	2206A-E13TAG2
Governing Type	Electronic
Number of Cylinders	6
Cylinder Arrangement	Vertical In Line
Bore and Stroke mm	130 x 157
Displacement / Cubic Capacity ltrs	12.5
Induction System	Turbocharged, air to air
Cycle	4 stroke
Combustion System	Direct Injection
Compression Ratio	16.3:1
Rotation	Anti-clockwise
Cooling System	Water Cooled

STANDARD SPECIFICATIONS

Perkins four stroke 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(constitution). sult your dealer for deration factors)

4. EXHAUST SYSTEM

Heavy duty Industrial Exhaust Silencer

Silencer noise reduction level Maximum allowable back pressure 10.0(kPa) @ 50 Hz

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 condensation.

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.









ENGINE / TECHNICAL DATA (continued)

Frequency and Engine Speed	50Hz & 1500rpm		60Hz & 18	60Hz & 1800rpm	
	Prime	Standby	Prime	Standby	
Gross Engine Power kW(hp)	324(434)	368(493)	373(500)	407(546)	
Fuel Consumption @50%load L/hr	37	-	43	-	
@75%load L/hr	54	-	62	-	
@100%load L/hr	71	80	81	87	
Total Lubrication System Capacity Itrs	40	40	40	40	
Total Coolant Capacity Itrs	51.4	51.4	51.4	51.4	
Boost Pressure Ratio	2.8	3.2	3.1	3.4	
Exhaust Temperature °C	630	630	630	660	
Radiator Cooling Air Flow(Min):m³/sec	9.4	9.4	12	12	
Combustion Air Flow:m³/min	21.3	23.6	27.4	29	
Exhaust Gas Flow:m³/min	56.6	64.8	67.5	73.5	
Fuel Tank Capacity: Itrs	570	570	570	570	

Dimension (mm) & Weight (Kg)	Length	Width	Height	Weight
Open	3800	1130	2155	3470
Soundproof	4400	1710	2570	4887

ALTERNATOR DATA

Make	Leroy Somer TAL / Stamford	
Model	TAL 046H / HCI444E	
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 / 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 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 Stop
- Failed to reach loading voltage/frequencyCharge fail
- Loss of magnetic pick-up signal-Optional
 • Low DC Voltage
- CAN diagnostics and CAN fail/error







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