WEBER

WPS750

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GENERATING SET MODEL WPS 750

Output Ratings	Prime	Standby
400 V,3 ph,50 Hz,1500 rpm	750 kVA	825 kVA
	600 kW	660 kW
		Power Factor : 0.8

ENGINE / TECHNICAL DATA

Engine Make	Perkins
Engine Model	4006-23TAG2A
Governing Type	Digital
Number of Cylinders	6
Cylinder Arrangement	Vertical In Line
Bore and Stroke mm	160 x 190
Displacement / Cubic Capacity ltrs	22.921
Induction System	Turbocharged
Cycle	4 stroke
Combustion System	Direct Injection
Compression Ratio	13.6:1
Rotation	Anti-clockwise
Cooling System	Water Cooled

STANDARD SPECIFICATIONS

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

2. ENGINE FILTRATION SYSTEM
- Cartridge type dry airfilter
- Two cartridge type fuelfilters
- Full flow lube oilfilter

All filters have replacable elements

3. COOLINGRADIATOR
Radiator and cooling fan, complete with safety guards,designed to cool the engine at high ambient temperatures(consult your dealer for deration factors)

4. EXHAUSTSYSTEM
Heavy duty Industrial Exhaust Silencer

Silencer noisereductionlevel	14 (dB)
Maximum allowablebackpressure	6.0(kPa)

5. CIRCUIT BREAKERTYPE
ABB 3 pole MCCB.(4 pole is optional)

6. FUELSYSTEM
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 INSULATIONSYSTEM
- Insulation : ClassH
- All windings are impregnated in either a triple dip thermosettingliquid,oilandacidresistingpolyestervarnishor vaccumpressureimpregnatedwithaspecialpolyesterresin.
- Heavycoatofantitrackingvarnishadditionalprotection against moisture orcondenasation.

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 MOTORSTARTING
Anoverloadcapacityequivalentto300%ofthefullload impedanceatzeropowerfactorcanbesustainedfor10 sec.,when AREP or PMG option isfitted.

8. MOUNTINGARRANGEMENT
8.1 BASEFRAME
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.

Powered by :

ENGINE / TECHNICAL DATA (continued)

Frequency andEngineSpeed	50Hz & 1500rpm		60Hz & 1800rpm	
	Prime	Standby	Prime	Standby
Gross Engine Power kW(hp)	658(882)	721(967)	682(915)	746(1000)
Fuel Consumption @50%load L/hr	83	-	88	-
@75%load L/hr	122	-	126	-
@100%load L/hr	161	176	177	196
Total Lubrication System Capacity ltrs	113.4	113.4	113.4	113.4
Total Coolant Capacity ltrs	120	120	120	120
Boost Pressure Ratio	3.4	3.6	3.4	3.6
Exhaust Temperature °C	430	430	430	430
Radiator Cooling Air Flow(Min):m³/sec	14.5	14.5	19	19
Combustion Air Flow:m³/min	64	71	65	72
Exhaust Gas Flow:m³/min	180	180	190	190
Fuel Tank Capacity: ltrs	N/A	N/A	N/A	N/A

Dimension (mm) &Weight(Kg)	Length	Width	Height	Weight
Open	4300	1750	2200	6300
Soundproof6090243825919300				

ALTERNATOR DATA

Make	Leroy Somer TAL / Stamford
Model	TAL 049C / HCI634G
No. of bearings	1
Insulation Class	H
Total Harmonic Content	On load <3.5% / <2%
Wires	6 / 12
Ingress Protection	IP23
Excitation System	Shunt / Seperately Excited
Winding Pitch	2/3(n˚6)
AVR Model	R150 / MX321
Overspeed	2250 mn^{-1}
Voltage Regulation	±1% / ±0.5%
Short Circuit Capacity	-
AREP & PMG Excitation System Available as optional	

STANDARD SPECIFICATIONS

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

9. FACTORYTESTS
• The generating set is load tested beforedispatch.
• All protective devices control functions and site load conditionsaresimulated.Thegeneratorandit'ssystemsare checked beforedispatch.

10. EQUIPMENTFINISHING
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
Model DSE4510
The DSE4510 is an Auto Start Control Module for single genset applications.ItincludesabacklitLCDdisplaywhichclearlyshows 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 PCsoftware.

Metering and AlarmIndications:

- GeneratorFrequency
- Underspeed,Overspeed
- Generatorvolts(L-L,L-N)
- GeneratorCurrent
- Engine OilPressure
- Engine CoolantTemperature
- FuelLevel
- Hours RunCounter
- BatteryVolts
- Fail tostart/stop
- EmergencyStop
- Failed to reachloading voltage/frequency
- Chargefail
- Loss of magneticpick-up signal-Optional
- Low DCVoltage
- CAN diagnostics and CAN fail/error

WEBER

Tel: +44 20 8144 2160
Weber Generators Ltd., Office 32,
19-21 Crawford Street, London, W1H 1PJ

Email: info@webergenerators.com
Website: www.webergenerators.com