

Generator Set Data Sheet

12KVA

KU@50Hz12KVA/9.6KW

Powered by **Kubota** **STAMFORD** | **AvK**

Main Features



DIESEL GENERATING SET



Kubota
V1505-E2BG



400/230V,
380/220V



3 phase
50 Hz



1500rpm



4CYLINDERS



6.7 LITRE



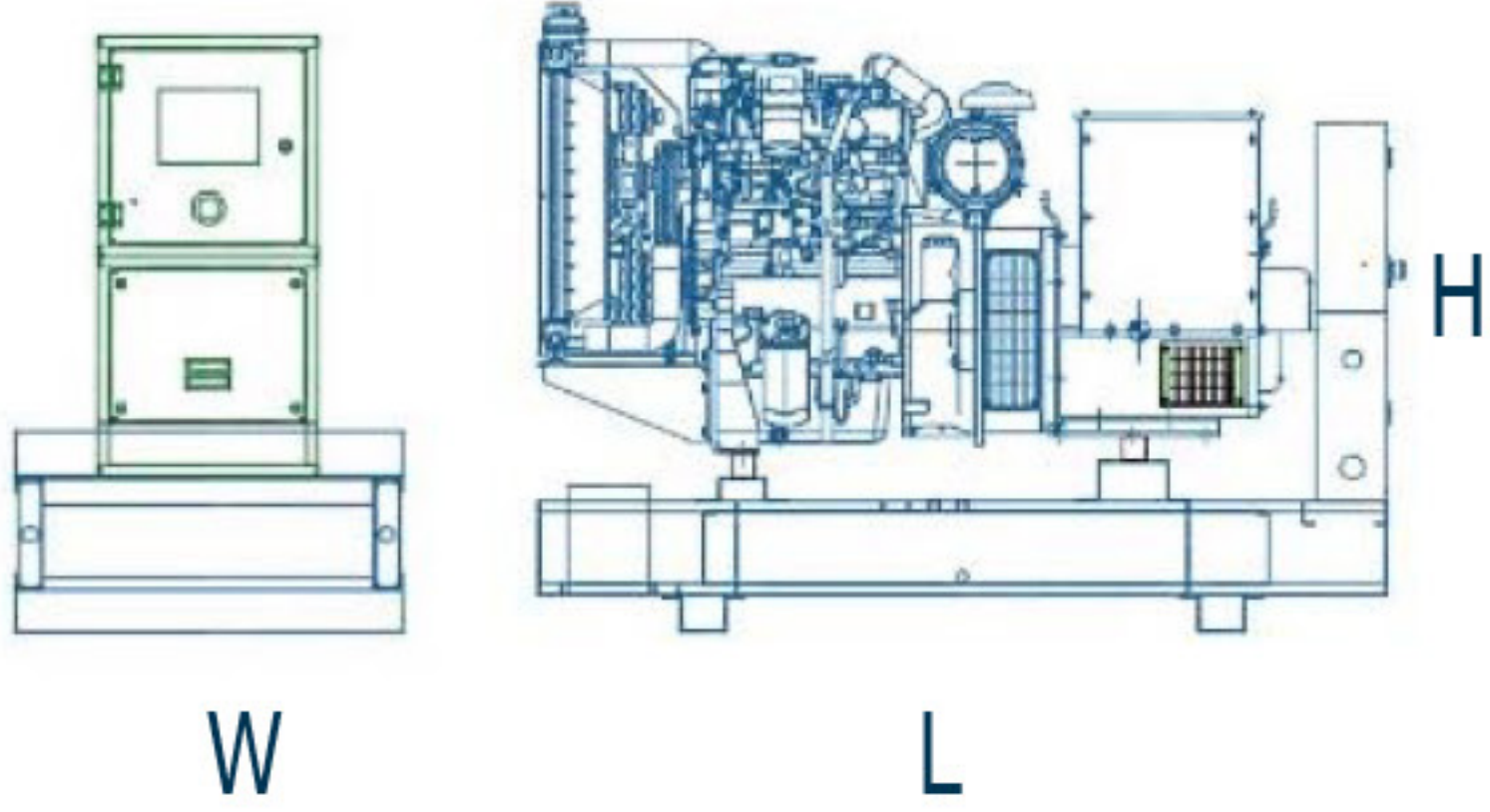
4 LITRE

Standby Power: 13KVA - 10.4KW

Prime Power: 12kVA - 9.6KW

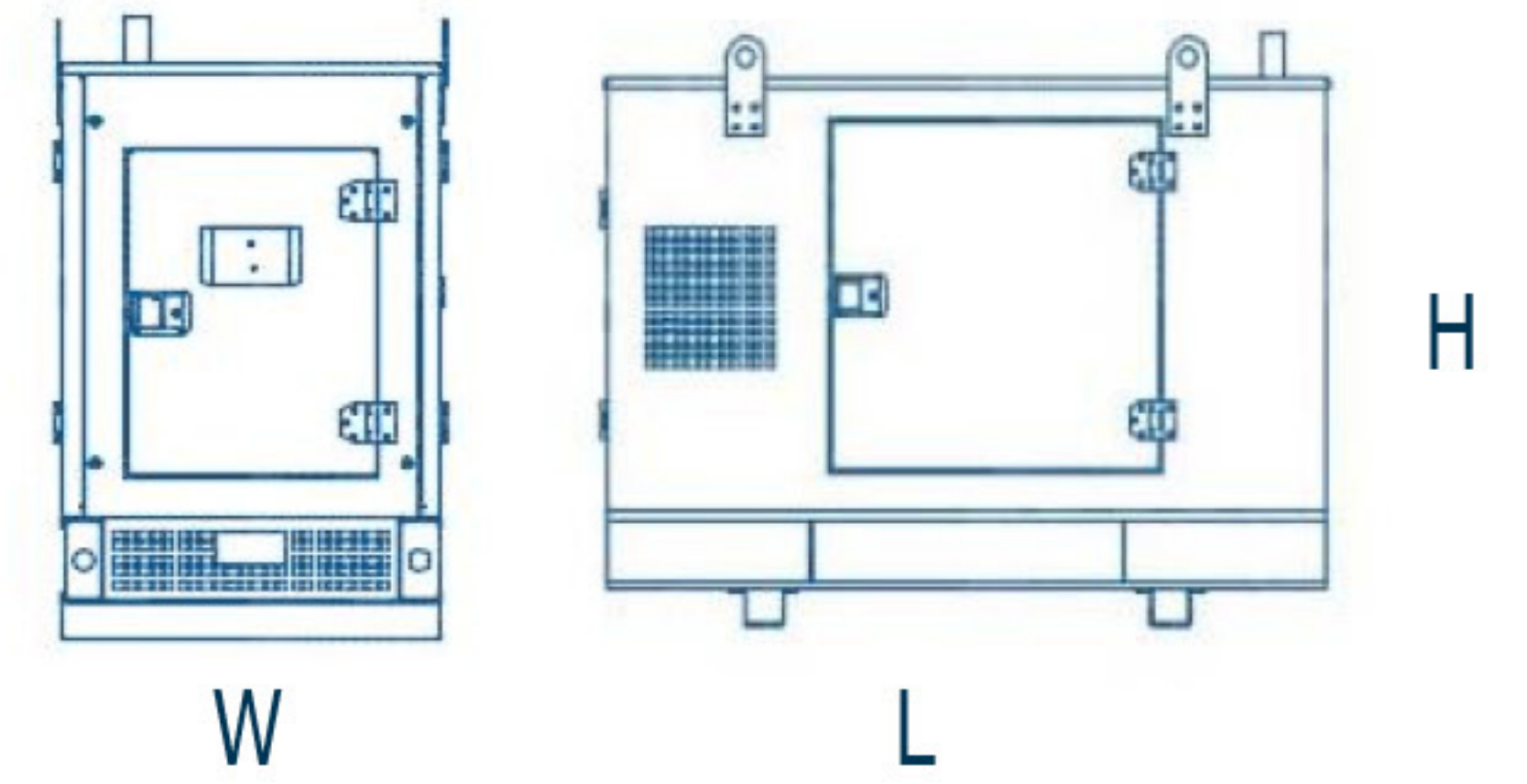
Open Skid

Length (L)	140 cm
Height (H)	105 cm
Width (W)	55 cm
Weight	310 kg
Daily Tank	50 L



Sound Proof

Length (L)	185 cm
Height (H)	123 cm
Width (W)	75 cm
Weight	850 kg
Daily Tank	45 L



Acoustic pressure level @3m

75 dBA

ENGINE: KUBOTA V1505-E2BG

Engine power output	11.1 kWm- 15.1hp
Cooling System	Water Cooled
Displacement / Capacity	1.498 Liter
No. of cylinders	4
Cylinder Arrangement	Vertical
Induction System	Naturally Aspirated
Bore and Stroke	78 x 78.4 mm
Cycle	4 stroke
Combustion System	Spherical Type (E-TVCS)
Compression Ratio	24.0 nominal
Rotation	Counter-clockwise, viewed on flywheel
Frequency and Engine Speed	50Hz & 1500rpm

Starting voltage	12V
Governor	Mechanical
Oil capacity	6.7 Liter
Coolant capacity	4 Liter
12 V D.C. starter and charge alternator	
Replaceable fuel filter, oil filter and dry element air filter	
Cooling radiator and fan	
Starter battery (maintenance free)	
Fuel consumption at 100% load	3.23 L/hr.



OPTIONAL EQUIPMENTS

ATS (Automatic Transfer Switch)	Alternator Anti-condensation Heater
Water Jacket Heater	Load Bank
Battery Charger	Electrical Fuel Level Sensor
Fuel Water Separator	Fuel Level Protection
Electrical Fuel Transfer Pump	Spare Parts
Battery Heater	Oil Heater

STANDARD SPECIFICATIONS

Warranty	All generating sets are covered under warranty policy for a period of 12 months in line with the manufacturers' warranty policy
Quality Standards	The equipment meets the following standards: BS4999, BS5514, IEC 60034, VDE0530, NEMA MG 1.22 and ISO 8528

Engine Filtration System	Air filter, Fuel filter, Oil filter. All filters have replaceable elements
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Fuel System	On generating sets up to 650KVA, the base frame design is incorporated with an integral fuel tank with a capacity of approx... 8 hours running at average load. The tank is supplied with fill cap breather, fuel feed and return pipes to the engine and drain plug
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Cooling Radiator	Radiator and cooling fan, complete with safety guards, designed to cool the engines at high ambient temperatures
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Exhaust System	Heavy duty industrial exhaust silencer Silencer noise reduction level: 22 (dB) Maximum allowable back pressure: 10 (kPa)
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Documentation	Operation & Maintenance manual, circuit wiring diagrams and commissioning / fault finding instruction leaflets are accompanied with the generator
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Mounting Arrangement

Base Frame:

The complete generating set is mounted as a whole in a heavy duty fabricated steel base frame.

Coupling:

The engine and alternator are directly coupled by means of an SAE flange. The engine flywheel is flexibly coupled to the alternator rotor

Anti-Vibration Mounting Pads:

Anti-vibration pads are affixed between the engine/ alternator feet and the base frame thus ensuring complete vibration isolation of the rotating assembly

Safety Guards:

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

Factory Tests:

The generating set is load tested before dispatch. All protective devices control functions and site load conditions are simulated. The generator and its systems are checked before dispatch

Equipment Finishing:

All mild steel components are fully degreased and painted with powder coated paint to ensure maximum scuff resistance and durability



ALTERNATOR: STAMFORD

Rating	11KVA	Model	SOL1-L1
No. of bearing	1	Insulation class	H
Total Harmonic Content	At no load<2.5% Linear load<5%	Wires	12
Ingress Protection	IP23	Excitation System	SHUNT
Winding Pitch	2/3(Wdg 3)	AVR Model	AS 540
Over-speed	2250 mn ⁻¹	Voltage Regulation	±1%
Circuit Breaker Capacity	MCB 16Amps		

STANDARD CANOPY

Sound Level

75 dBA @ 3 meters in free space

Design

Rigid canopy base manufactured by black steel metal sheets welded on canopy body with internal Re-enforcement and bolted on the body.

3 service doors with stainless steel door locks.

Stainless steel heavy duty door hinges.

Black steel canopy body – 2mm and 3mm treated with greasing phosphate and anticorrosion treatment with electro static power coating.

Connection

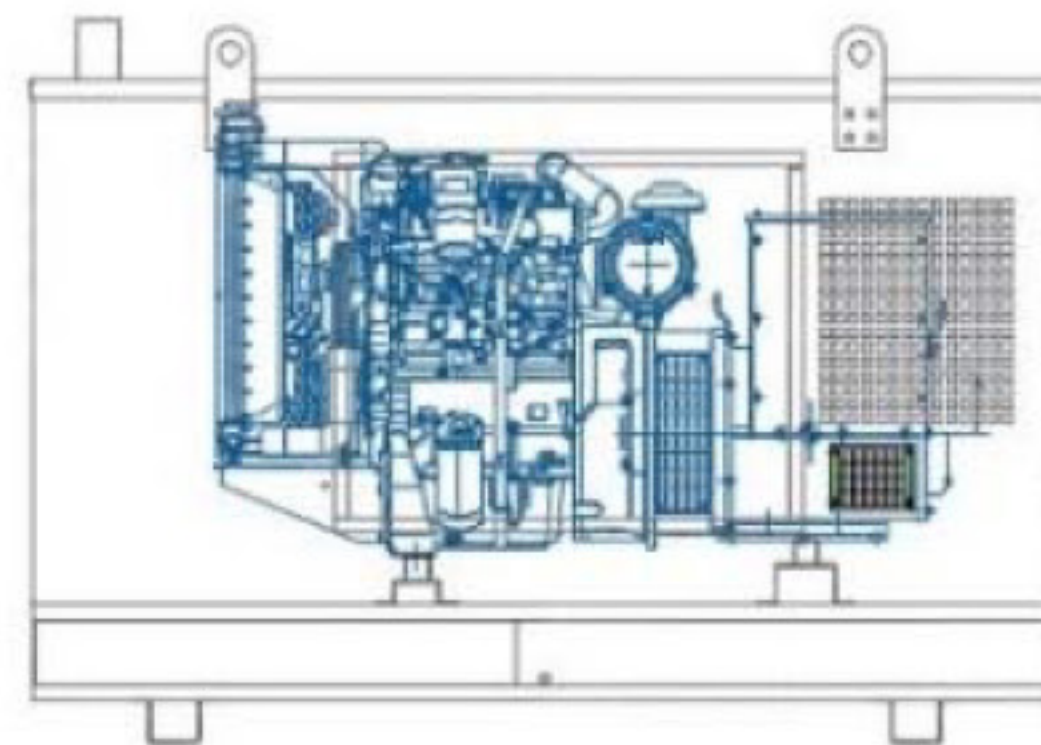
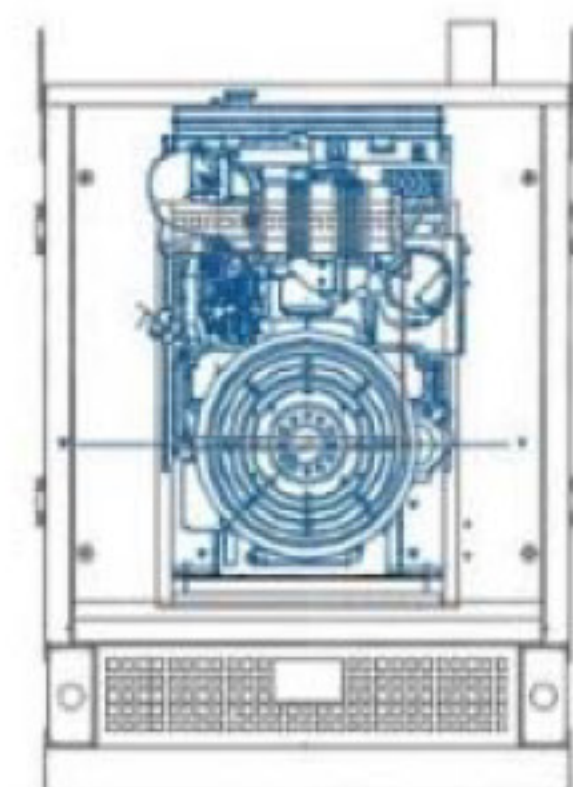
Flexible

Sound isolation

Rockwool with perforated sheets

Muffler

Muffler with rain cap



CONTROL (MONITORING) SYSTEM: DEEP SEA

Control panel model

DSE6010

The DSE6010 is an Auto Start Control Module for single gen-set 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 suite PC software.

Metering and Alarm indications

- Generator frequency
- Under-speed, Over-speed
- Generators volts (L-L, L-N)
- Generator current
- Engine Oil pressure
- Fail to start/ stop
- Emergency stop
- Failed to reach loading voltage / frequency
- Engine coolant temperature
- Fuel level (warning or shutdown) – Optional
- Hours run counter
- Battery volts
- Charge fail
- Low DC voltage
- CAN diagnostics and CAN fail/ error