

Generator Set Data Sheet

15KVA

KU@50Hz 15KVA/12KW

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

Main Features



DIESEL GENERATING SET



Kubota  
D1703-E2BG



400/230V,  
380/220V



3 phase  
50 Hz



1500rpm



3CYLINDERS



5.1 LITRE



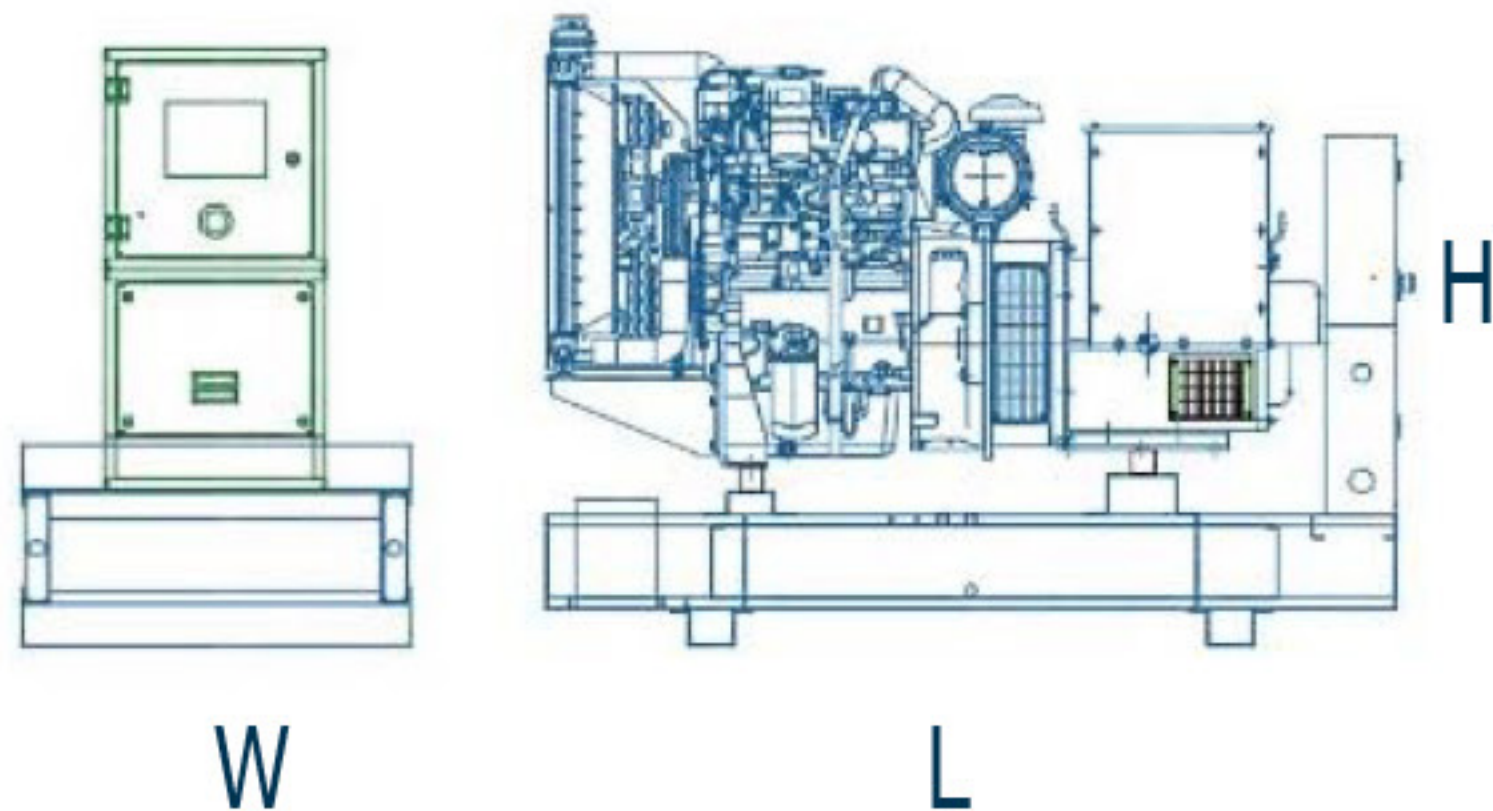
6 LITRE

**Standby Power: 16.5KVA - 13.2KW**

**Prime Power: 15kVA - 12 KW**

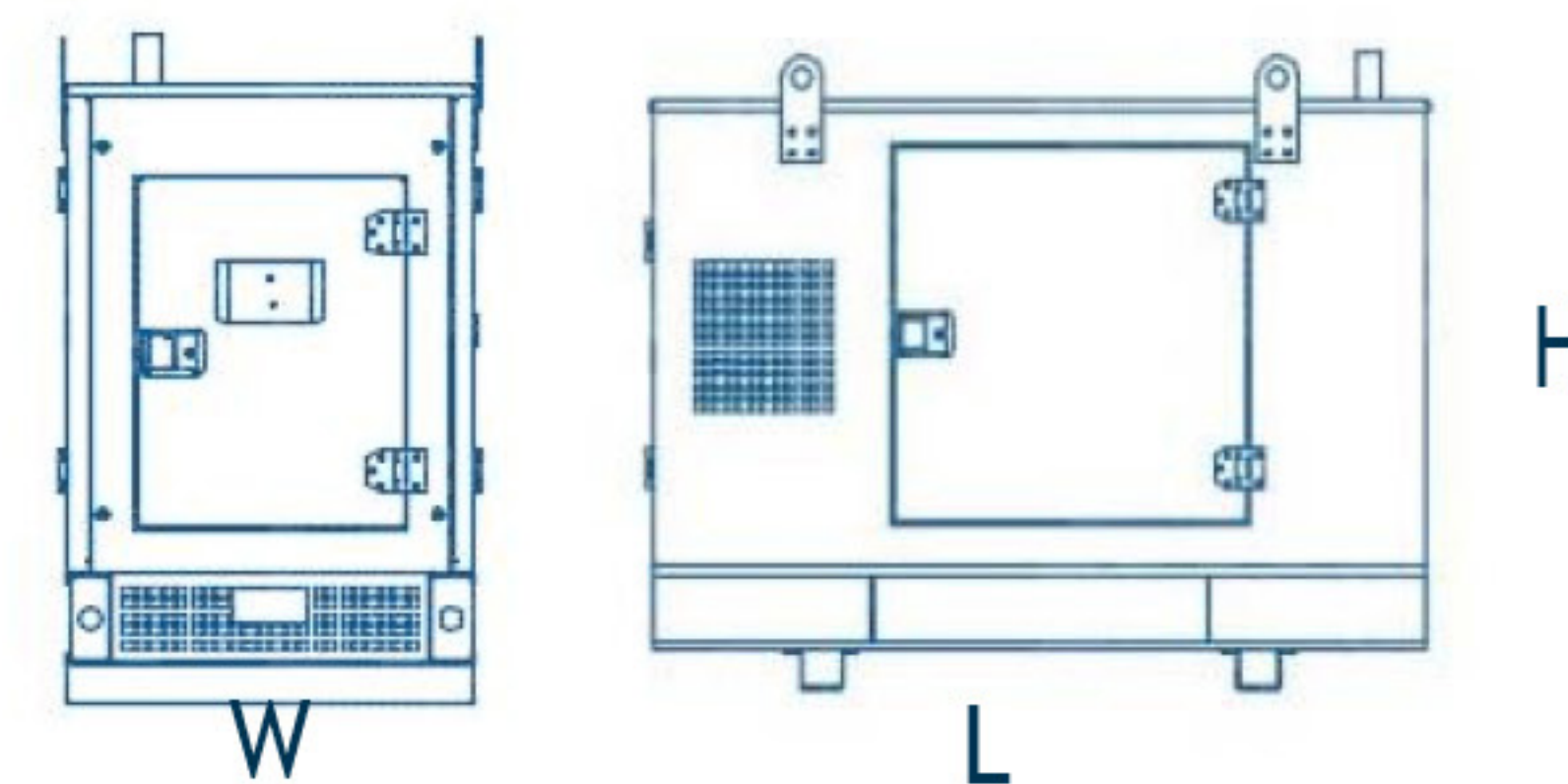
Open Skid

Length (L) 150 cm  
Height (H) 110 cm  
Width (W) 60 cm  
Weight 375 kg  
Daily Tank 50 L



Sound Proof

Length (L) 185 cm  
Height (H) 123 cm  
Width (W) 75 cm  
Weight 880 kg  
Daily Tank 45 L



Acoustic pressure level @3m

75 dBA

**ENGINE: KUBOTA D1703-E2BG**

Engine power output 9.7 kWm-12.8hp  
Cooling System Water Cooled  
Displacement / Capacity 1.123 Liter  
No. of cylinders 3  
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 5.1 Liter  
Coolant capacity 6 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 3.51 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		
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	Mounting Arrangement	<p><b>Base Frame:</b> The complete generating set is mounted as a whole in a heavy duty fabricated steel base frame.</p> <p><b>Coupling:</b> The engine and alternator are directly coupled by means of an SAE flange. The engine flywheel is flexibly coupled to the alternator rotor</p> <p><b>Anti-Vibration Mounting Pads:</b> Anti-vibration pads are affixed between the engine/ alternator feet and the base frame thus ensuring complete vibration isolation of the rotating assembly</p> <p><b>Safety Guards:</b> The fan &amp; fan drive along with the battery charging alternator are safety guard protected for personnel protection</p>
Cooling Radiator	Radiator and cooling fan, complete with safety guards, designed to cool the engines at high ambient temperatures		
Exhaust System	Heavy duty industrial exhaust silencer Silencer noise reduction level: 22 (dB) Maximum allowable back pressure: 10 (kPa)		
Documentation	Operation & Maintenance manual, circuit wiring diagrams and commissioning / fault finding instruction leaflets are accompanied with the generator	<p><b>Factory Tests:</b></p> <p><b>Equipment Finishing:</b></p>	<p>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</p> <p>All mild steel components are fully degreased and painted with powder coated paint to ensure maximum scuff resistance and durability</p>

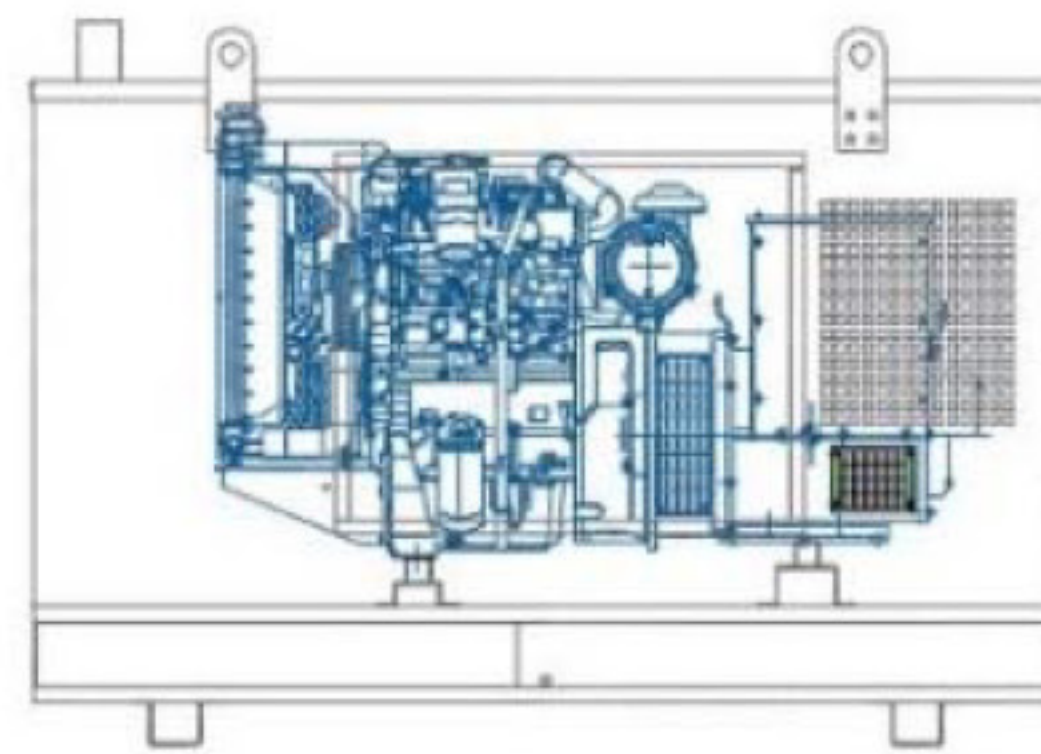
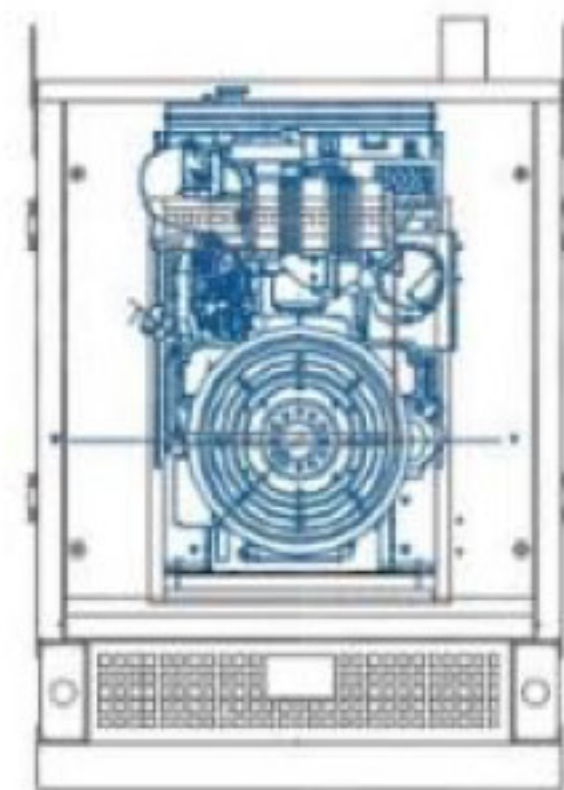


## ALTERNATOR: STAMFORD

<b>Rating</b>	15KVA	<b>Model</b>	SOL1-P1
<b>No. of bearing</b>	1	<b>Insulation class</b>	H
<b>Total Harmonic Content</b>	At no load<3.5% Linear load<5%	<b>Wires</b>	6
<b>Ingress Protection</b>	IP23	<b>Excitation System</b>	SHUNT
<b>Winding Pitch</b>	2/3(Wdg 3)	<b>AVR Model</b>	AS 540
<b>Over-speed</b>	2250 mn <sup>-1</sup>	<b>Voltage Regulation</b>	±1%
<b>Circuit Breaker Capacity</b>	MCB 25Amps		

## STANDARD CANOPY

<b>Sound Level</b>	75 dBA @ 3 meters in free space
<b>Design</b>	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.
<b>Connection</b>	Flexible
<b>Sound isolation</b>	Rockwool with perforated sheets
<b>Muffler</b>	Muffler with rain cap



## CONTROL (MONITORING) SYSTEM: DEEP SEA

<b>Control panel model</b>	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.
<b>Metering and Alarm indications</b>	<ul style="list-style-type: none"> <li>• Generator frequency</li> <li>• Under-speed, Over-speed</li> <li>• Generators volts (L-L, L-N)</li> <li>• Generator current</li> <li>• Engine Oil pressure</li> <li>• Fail to start/ stop</li> <li>• Emergency stop</li> <li>• Failed to reach loading voltage / frequency</li> <li>• Engine coolant temperature</li> <li>• Fuel level (warning or shutdown) – Optional</li> <li>• Hours run counter</li> <li>• Battery volts</li> <li>• Charge fail</li> <li>• Low DC voltage</li> <li>• CAN diagnostics and CAN fail/ error</li> </ul>