





Generator Set Data Sheet

20KVA

KU@50Hz 20KVA/16KW





Main Features









3 phase 50 Hz







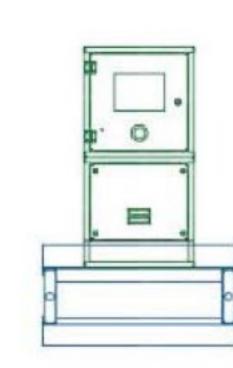
9.7 LITRE

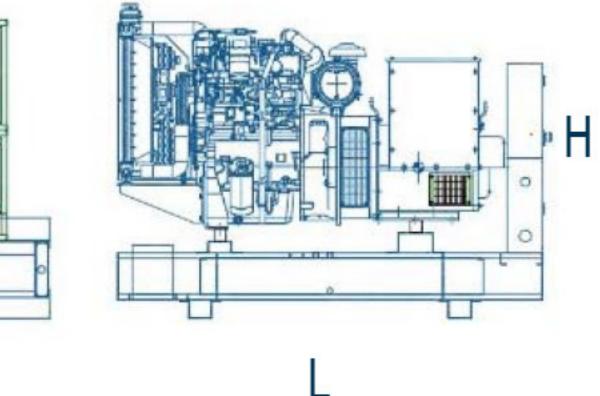


Standby Power: 22KVA - 17.6KW

Open Skid

150 cm Length (L) Height (H) 110 cm Width (W) 60 cm Weight 400 kg Daily Tank 65 L

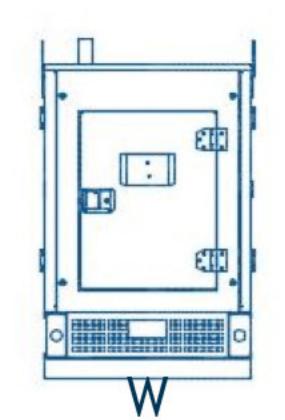


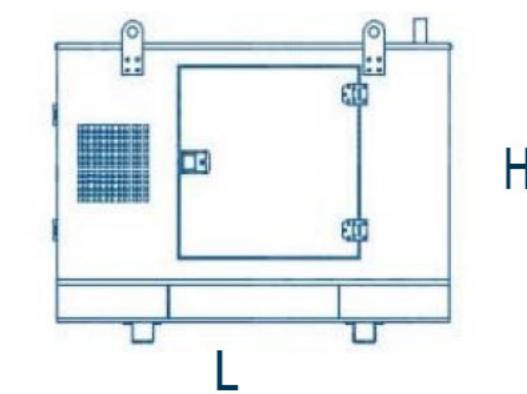


Prime Power: 20kVA - 16 KW

Sound Proof

210 cm Length (L) Height (H) Width (W) 132 cm 100 cm Weight 930 kg Daily Tank 55 L





Acoustic pressure level @3m

75 dBA

ENGINE: KUBOTA V2003-T-E2BG

Engine power output 20.4 kWm-27.7hp Cooling System Water Cooled Displacement / Capacity 1.997 Liter No. of cylinders Cylinder Arrangement Vertical

Induction System Naturally Aspirated **Bore and Stroke** 83 x 92.4 mm Cycle 4 stroke

Combustion System Spherical Type (E-TVCS) Compression Ratio 23.0 nominal

Rotation Counter-clockwise, viewed on flywheel

Frequency and Engine Speed 50Hz & 1500rpm Starting voltage 12V

Governor Mechanical Oil capacity 7.6 Liter Coolant capacity 8 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 5.59 L/hr.



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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 Cooling Redictor	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 Radiator and cooling fan, complete with safety guards,		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	
Cooling Radiator	designed to cool the engines at high ambient temperatures		Anti-Vibration Mounting Pads: Anti-vibration pads are affixed between the engine/ alternator feet and the base frame thus ensuring	
Exhaust System	Heavy duty industrial exhaust silencer Silencer noise reduction level: 22 (dB) Maximum allowable back pressure: 10 (kPa)		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	
Documentation	Operation & Maintenance manual, circuit wiring diagrams and commissioning / fault finding instruction leaflets are accompanied with the generator	Factory Tests: Equipment Finishing:	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 All mild steel components are fully degreased and painted with powder coated paint to ensure maximum scuff resistance and durability	



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ALTERNATOR: LEROY SOMER

Rating	20KVA	Model	TAL040F
No. of bearing	1	Insulation class	H
		Wires	6
Total Harmonic Content	At no load<3.5% Linear load<5%	Excitation System	SHUNT
Ingress Protection	IP23	AVR Model	R 120
Winding Pitch	2/3(Wdg 3)		
Over-speed	2250 mn ⁻¹	Voltage Regulation	±1%
Circuit Breaker Capacity	MCB 32Amps		

STANDARD CANOPY

75 dBA @ 3 meters in free space Sound Level

Rigid canopy base manufactured by black steel metal sheets welded on canopy body with internal Re-Design

enforcement and bolted on the body.

3 service doors with stainless steel door locks.

Stainless steel heavy duty door hinges.

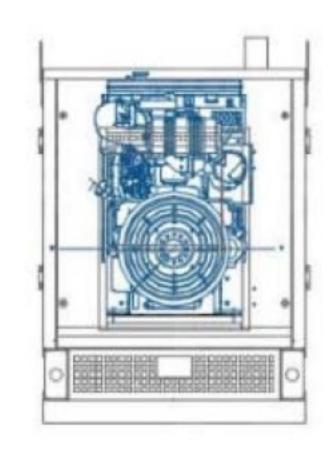
Black steel canopy body – 2mm and 3mm treated with greasing phosphate and anticorrosion treatment with

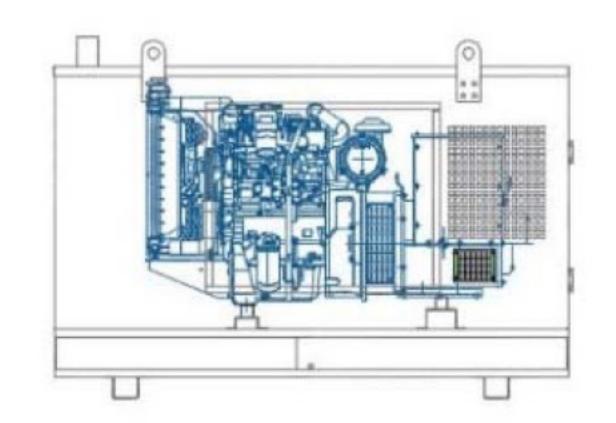
electro static power coating.

Connection Flexible

Rockwool with perforated sheets Sound isolation

Muffler with rain cap Muffler





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