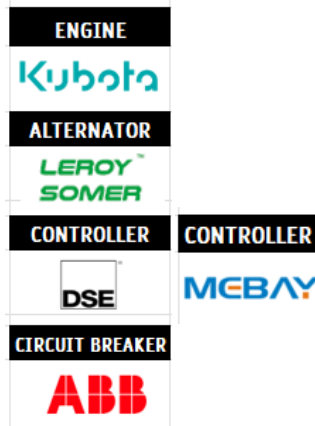




**STANDARD SPECIFICATIONS**

- 1. ENGINE**  
Kubota four(4) stroke heavy duty high performance industrial type diesel engine.
- 2. ENGINE FILTRATION SYSTEM**
  - Air filter
  - Fuel filter
  - Full flow lube oil filter
- 3. COOLING RADIATOR**  
Radiator and cooling fan, complete with safety guards.
- 4. CIRCUIT BREAKER TYPE**  
- ABB 3 pole MCB.
- 6. FUEL SYSTEM**  
The base-frame design is integrated with a fuel tank with a capacity of approx. 8 hours running at Full Load.
- 7. COUPLING**  
The Engine and Alternator are directly coupled.
- 8. ANTI-VIBRATION MOUNTING PADS**  
Anti-Vibration pads are fasten between the Engine / Alternator feet and the Base-frame.



**GENSET TYPE (TMP013)**

OUTPUT RATINGS	Ratings at 80% Power Factor	
	Prime	Standby
230 V/ 415 V 3 ph. 50 Hz, 1500 rpm	12.5 KVA	13.5 KVA
	<b>10 kW</b>	<b>10.8 KW</b>

**Prime Power:** These ratings apply to producing continuous electrical power (at varying load) instead of commercially received electricity. 10% overload power is provided for one(1) hour every 12 hours of continuous operation.

**Standby Power:** These ratings apply to providing continuous electrical power (at variable load) in the case of a utility power outage. Overload is not allowed on these ratings.

**Control Panel Details (Standard)**

Make / Model	DSE / DSE6110
Make / Model (Optional)	MEBAY / DC30

- DSE6110** Metering and Alarm indications not limited to:
- Generator frequency
  - Generator current
  - Engine coolant temperature
  - Battery volts
  - Emergency stop
  - Low DC voltage
  - Under-speed, Overspeed
  - Engine oil pressure
  - Fuel level
  - Fail to start/stop
  - Charge fail

- MEBAY DC30** Metering and Alarm indications not limited to:
- Generator frequency
  - Generator current
  - Engine coolant temperature
  - Battery volts
  - Emergency stop
  - Low DC voltage
  - Under-speed, Overspeed
  - Engine oil pressure
  - Fuel level
  - Fail to start/stop
  - Charge fail

**ENGINE TECHNICAL DATA**

Make & Model	KUBOTA V1505-E2-BG
Cylinders & Arrangement	4 Vertical in-line
Bore & Stroke (mm)	78 x 78.4
Induction system	Naturally aspirated
Combustion	Indirect injection
Cycle	4 stroke
Compression ratio	23:01
Cooling System	Water cooled
Displacement	1.498 liters
Lube oil capacity	6.0 liters Max
Coolant capacity	6.7 liters
Standard governor (Optional)	Mechanical
Engine Speed	1500 rpm
Fuel Consumption (L/H) @ 100% Load	3.23
@ 75% Load	2.43
@ 50% Load	1.62
@ 25% Load	0.81
Radiator Cooling Air Flow (m3/s)	0.48
Emissions regulations	For non-regulated territories
Exhaust temperature °C (max)	500
Max exhaust gas flow (m³/min)	2.99
Max. allowed back pressure (kPa)	7.1

**ALTERNATOR**

Make	Model	No. of bearings	Insulation class	Total Harmonic Content	Ingress Protection	Excitation System	Winding Pitch	AVR Model	Overspeed	Voltage Regulation (steady)
Leroy Somer	TAL 040F	1	H	At no load <3.5% On-Load <5%	IP23	SHUNT	2/3	R120	2250 RPM	± 1%

**DIMENSIONS AND WEIGHT (OPEN TYPE)**

Length cm	Width cm	Height cm	Weight kg	Fuel Tank (liters)
<b>140</b>	<b>61</b>	<b>99</b>	<b>340</b>	<b>51</b>



**STANDARD SPECIFICATIONS**

**6. FUEL SYSTEM**

The base-frame design is integrated with a fuel tank with a capacity of approx. 8 hours running at Full Load.

**8.2 COUPLING**

The Engine and Alternator are directly coupled.  
The Engine flywheel is flexibly connected to the alternator rotor.

**8.3 ANTI-VIBRATION MOUNTING PADS**

Anti-Vibration pads are fasten between the Engine / Alternator feet and the Base-frame.

**8.4 SAFETY GUARDS**

The Fan and Fan Drive, as well as the Battery Charging Alternator, are Safety Guard protected for the safety of the personnel.

**9. FACTORY TESTS**

- Before delivery, the generating set is load tested.
- Site load conditions and all protective device control functions are simulated.
- Before delivery, the generator and its systems are checked.

**10. EQUIPMENT FINISHING**

To provide the highest level of durability and scuff resistance, all mild steel components are completely degreased and coated.

**11. DOCUMENTATIONS**

- Operation & Maintenance manual,
- Circuit wiring diagrams and,
- Commissioning accompanied with the Generator.

**13. WARRANTY**

All of the Generating Sets are covered under a warranty policy for a period of 12 months or One Thousand Hours Run Time (1000hrs.). Warranty of the equipment is in line with manufacturers warranty terms & conditions.



**TMS013 65 dBA @ 1 Meter**



**TMS013 75 dBA @ 3 Meters**

**SOUND REDUCTION LEVEL:**

- Tow(2) options are available:
  1. 65 dBA @ 1 meter
  2. 75 dBA @ 3 meters

**TRANSPORTABILITY AND MOVEABILITY:**

- Multiple points lifting facility
- Dragging points at base-frame

**GENERAL SPECIFICATIONS**

- Unique appearance with high sound absorbing and thermal properties.
- Vertically hinged allow 180° opening rotation and retention with door stays.
- Lockable access doors which give full access to control panel and breaker.
- High quality locks and hinges.
- Internal emergency stop is standard with optional external emergency stop.
- Full weather proof enclosure and suitable operations in harsh conditions.
- Manufactured from galvanized metal sheet for doors & louvers.

**DIMENSIONS AND WEIGHT (Closed Type 65 dBA @ 1 meter)**

Length cm	Width cm	Height cm	Weight kg (with oil and coolant)	Fuel Tank liters
210	90	155	890	40

**DIMENSIONS AND WEIGHT (Closed Type 75 dBA @ 3 meters)**

Length cm	Width cm	Height cm	Weight kg (with oil and coolant)	Fuel Tank liters
200	80	115	628	85

**AVAILABLE OPTIONS & ACCESSORIES**

***We offer a variety of additional features, accessories, and other technical specifications to customize our generating sets to match our customers' power requirements.***

**OPTIONS ACCESSORIES NOT LIMITED TO:**

- A variety of GenSet control and synchronizing panels
- Additional protection alarms and shutdowns
- Water fuel separator
- Water jacket heater
- Battery charger
- Genuine spare parts
- Load banks
- Auxiliary fuel tanks
- Manual & automatic transfer switches

Der Zahrani, Nabatiyeh, Lebanon	Bir Hasan, Beirut, Lebanon	Zango, Luanda, Angola	Palanca, Luanda, Angola	Estr. De Catete, Viana, Angola
+961 753 1930	+961 182 1164	+244 953 399 366	+244 923 600 112	+244 931 922 246
+961 3 377 052	+961 3 399 366	+244 942 521 327	+244 931 922 236	+244 925 273 237
info@techno-motors.com	rayanchraim@techno-motors.com	ghchraim@gmail.com	wifluxx@gmail.com	mchreim@techno-motors.com