

| Ratings @ 0.8 PF | | Prime Rating | Stand by Rating |
|-----------------------|-------------------------|--------------------|---------------------|
| Voltage* ¹ | Frequency* ² | KC12* ³ | KC13S* ⁴ |
| 230 V/400V | 50 Hz | 11.6 kVA | 12.8 kVA |

| Dimensions | |
|------------|---------|
| Length | 1400 mm |
| Width | 610 mm |
| Height | 990 mm |
| Weight | 305 Kg |

The above ratings represent the generating set capability guaranteed within $\pm 3\%$ at the reference conditions equivalent to those specified in ISO 8528/1 standard.

Notes

1. The applicable voltage range is 380V to 415V for 50Hz applications. For other voltages, please consult factory.

2. This generating set is of fixed speed of 1500rpm.

3. KT12 is the prime power rating of the generating set, where a variable load and unlimited hours usage are applied with an average load factor of 80% average of the prime rating over each 24-hour period. Noting that a 10% overload is permitted for 1 hour in every 12-hour operation.

4. KT13S is the standby power rating of the generating set, where a variable load limited to an annual usage up to 500 hours is applied, with 300 hours of which may be continuous running. Noting that no overloads is permitted.

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 | 23:1 | |
| Cooling System | Water cooled | |
| Displacement | 1.498 liters | |
| Lube oil capacity | 6.0 liters Max | |
| Coolant capacity | 6.7 liters | |
| Standard governor (Optional) | Mechanical +/-5% (Electronic) | |
| Engine Speed | 1500 rpm | |
| Fuel Consumption (L/H) @ 100% Load | 3.23 | @ 50% Load 1.62 |
| Fuel Consumption L/H) @ 75% Load | 2.43 | @ 25% Load 0.81 |
| Radiator Cooling Air Flow (m ³ /s) | 0.48 | |
| Emissions regulations | For non-regulated territories | |
| Exhaust temperature °C (max) | 500 | |
| Max exhaust gas flow (m ³ /min) | 2.99 | |
| Max. allowed back pressure (kPa) | 7.1 | |

The above performance data are valid as per the following specs:

- Diesel Fuel is accorg to BS2869 Class A2 or equivalent.
- Lubricating oil is according to Grade SAE 15W-40 API CI4.
- The coolant should be 50% antifreeze and 50% fresh water.

Alternator Technical Data

| Make & Model | Leroy Somer TAL040C | | |
|--------------------------|---------------------|--------------------|------------------------|
| Frequency / No. of poles | 50Hz / 4P | Winding pitch | 2/3 |
| Ingress protection | IP23 | AVR model | R120 |
| Insulation class | H | Overspeed | 2250 R.P.M. |
| Terminals (Optional) | 6(12) | Voltage regulation | $\pm 1\%$ |
| Excitation system | SHUNT | Coolant air flow | 0.06 m ³ /s |

