

Ratings @ 0.8 PF		Prime Rating	Stand by Rating
Voltage*1	Frequency*2	KC 12.5*3	KC14S*4
230/400 V	50 Hz	12.5 kVA	14 kVA

Dimensions	
Length	1400 mm
Width	610 mm
Height	1110 mm
Weight	340 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

- The applicable voltage range is 380V to 415V for 50Hz applications. For other voltages, please consult factory.
- This generating set is of fixed speed of 1500 rpm.
- KC12.5 is the prime power rating of the generating set is where a variable load and unlimited hour usage are applied with an average load factor of 80% of the prime rating over each 24-hour period. Noting that a 10% overload is permitted for 1 hour in every 12-hour operation.
- KC14S is the standby power rating of the generating set is 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 overload is permitted.

### Engine Technical Data

<b>Make &amp; Model</b>	<b>KUBOTA D1703-E2-BG</b>		
Cylinders & Arrangement	3 - vertical in-line		
Bore & Stroke (mm)	87 x 92.4		
Induction system	Naturally aspirated		
Combustion	Indirect injection		
Cycle	4 stroke		
Compression ratio	22.6		
Cooling System	Water cooled		
Displacement	1.647 liters		
Lube oil capacity	5.6 liters Max		
Coolant capacity	5.5 liters		
Standard governor (Optional)	Mechanical $\pm 5\%$ (Electronic)		
Engine Speed	1500 rpm		
Fuel Consumption (L/H) @ 110% Load	3.7	@ 75% Load	2.6
Fuel Consumption (L/H) @ 100% Load	3.4	@ 50% Load	1.8
Radiator Cooling Air Flow (m3/s)	0.49		
Emissions regulations	EPA/CARB Tier2		
Exhaust temperature °C (max)	500		
Max exhaust gas flow (m3/min)	3.29		
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

<b>Make &amp; Model</b>	<b>Leroy Somer OR Stanford TAL040C</b>		
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 m3/s

