KC12.5-KC13.5S(50Hz)-Single Phase

Ratings @ 0.8 PF		Prime Rating	Stand by Rating	
Voltage*	Frequency*	KC12.5*	KC13.5S*	Max Current @PF =1
230 V	50 Hz	12.2 kVA	13.4 kVA	45 A

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

Dimensions	
Length	1500 mm
Width	610 mm
Height	990 mm
Weight	340 Kg

Notes

1. The applicable voltage range is 230V for 50Hz applications. For other voltages, please consult factory.

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

3. KC12.5 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. KC13.5S 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 continous 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 OR Stanford TAL040F		
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	± 1 %
Excitation system	SHUNT	Coolant air flow	0.06 m^3/s

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