

Ratings @ 0.8 PF		Prime Rating	Stand by Rating	
Voltage*1	Frequency*2	IMG20*3	IMG23S*4	Max Current @ PF=1
230 V	50 Hz	20.5 kVA	22.5 kVA	95 A

Dimensions	
Length	1700 mm
Width	610 mm
Height	1160 mm
Weight	480 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 230V for 50Hz applications. For other voltages, please consult factory.
- This generating set is of fixed speed of 1500 rpm.
- IMG 20 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.
- IMG 23S 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

Make & Model	KUBOTA V3300-E2-BG2		
Cylinders & Arrangement	4- vertical in-line		
Bore & Stroke (mm)	98x110		
Induction system	Naturally Aspirated		
Combustion	Indirect injection		
Cycle	4 stroke		
Compression ratio	22.6		
Cooling System	Water cooled		
Displacement	3.318 liters		
Lube oil capacity	13.2 liters Max		
Coolant capacity	13.2 liters		
Standard governor (Optional)	Mechanical +/-5% (Electronic)		
Engine Speed	1500 rpm		
Fuel Consumption (L/H) @ 100% Load	7.15	@ 50% Load	3.58
Fuel Consumption (L/H) @ 75% Load	5.37	@ 25% Load	1.79
Radiator Cooling Air Flow (m3/s)	0.98		
Emissions regulations	EU Stage IIIA		
Exhaust temperature °C (max)	500		
Max exhaust gas flow (m3/min)	6.63		
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 TAL042F OR Stamford		
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	0.1 m3/s

