

Ratings @ 0.8 PF		Prime Rating	Stand by Rating
Voltage* ¹	Frequency* ²	IMG 45* ³	IMG49S* ⁴
220/380 V	60 Hz	44.6 kVA	48.8 kVA
127/220 V	60 Hz	44.6 kVA	48.8 kVA
277/480 V	60 Hz	44.6 kVA	48.8 kVA

Dimensions	
Length	1800 mm
Width	610 mm
Height	1160 mm
Weight	556 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 220, 380V to 480V for 60Hz applications. For other voltages, please consult factory.
- This generating set is of fixed speed of 1800 rpm.
- IMG 45 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 49S 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-T-E2-BG		
Cylinders & Arrangement	4 - vertical in-line		
Bore & Stroke (mm)	100 x 120		
Induction system	Turbo Charged		
Combustion	Indirect injection		
Cycle	4 stroke		
Compression ratio	21.8		
Cooling System	Water cooled		
Displacement	3.769 liters		
Lube oil capacity	13.2 liters Max		
Coolant capacity	13.2 liters		
Standard governor (Optional)	Isochronous Electronic		
Engine Speed	1800 rpm		
Fuel Consumption (L/H) @ 100% Load	9.3	@ 50% Load	4.65
Fuel Consumption (L/H) @ 75% Load	6.975	@ 25% Load	2.325
Radiator Cooling Air Flow (m3/s)	1.49		
Emissions regulations	EU Stage IIIA		
Exhaust temperature °C (max)	500		
Max exhaust gas flow (m3/min)	10.7		
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	60Hz / 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	0.13 m ³ /s

