

Ratings @ 0.8 PF		Prime Rating	Stand by Rating
Voltage* <sup>1</sup>	Frequency* <sup>2</sup>	IMG100* <sup>3</sup>	IMG110S*
230/400 V	50 Hz	100 kVA	110 kVA

Dimensions	
Length	2500 mm
Width	800 mm
Height	1500 mm
Weight	1100 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 1500 rpm.

3. CT **100** 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.

4. CT **110S** 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	CUMMINS 6BTA5.9-G5	
Cylinders & Arrangement	6; Vertical in-line	
Bore & Stroke (mm)	102 x 120	
Induction system	Turbo charged & Aftercooled	
Combustion	Direct injection	
Cycle	4 stroke	
Compression ratio	17.0:1	
Cooling System	Water cooled	
Displacement	5.9 liters	
Lube oil capacity	16.4 liters Max	
Coolant capacity	19.8 liters	
Standard governor	Electronic	
Engine Speed	1500 rpm	
Fuel Consumption (L/H) @ 100% Load	25	@ 50% Load 12
Fuel Consumption (L/H) @ 75% Load	18	@ 25% Load 7
Radiator Cooling Air Flow (m <sup>3</sup> /s)	3.95	
Emissions regulations	Best Fuel Consumption	
Exhaust temperature °C (max)	533	
Max exhaust gas flow (m <sup>3</sup> /min)	22.5	
Max. allowed back pressure (kPa)	10.25	

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 TAL044D OR Stanford		
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	0.29 m <sup>3</sup> /s