

Ratings @ 0.8 PF		Prime Rating	Stand by Rating
Voltage* ¹	Frequency* ²	KC45* ³	KC50S* ⁴
230/400 V	50 Hz	43 kVA	49 kVA

Dimensions	
Length	3000 mm
Width	1100 mm
Height	1800 mm
Weight	2000 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 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.

4. CT 50S 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 4BTAA3.3-G16		
Cylinders & Arrangement	4; Vertical in-line		
Bore & Stroke (mm)	95x 115		
Induction system	Turbocharged, Aftercooled		
Combustion	Direct injection		
Cycle	4 stroke		
Compression ratio	19:1		
Cooling System	Water cooled		
Displacement	3.3 liters		
Lube oil capacity	7.9 liters Max		
Coolant capacity	8.6 liters (Engine Only)		
Standard governor	Mechanical Governor		
Engine Speed	1500 rpm		
Fuel Consumption (L/H) @ 100% Load	11	@ 50% Load	6
Fuel Consumption (L/H) @ 75% Load	8	@ 25% Load	3
Radiator Cooling Air Flow (m ³ /s)	1.971		
Emissions regulations	Fuel Optimized		
Exhaust temperature °C (max)	437		
Max exhaust gas flow (m ³ /min)	8.5		
Max. allowed back pressure (kPa)	10.2		

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		
Frequency / No. of poles	50Hz / 4P	Winding pitch	2/3
Ingress protection	IP23	AVR model	R120 / R180
Insulation class	H	Overspeed	2250 R.P.M.
Terminals (Optional)	6 (12)	Voltage regulation	$\pm 1\%$
Excitation system	SHUNT (AREP+ or PMG)	Coolant air flow	0.1 m ³ /s