

Ratings @ 0.8 PF		Prime Rating	Stand by Rating
Voltage* <sup>1</sup>	Frequency* <sup>2</sup>	KC410* <sup>3</sup>	KC450S* <sup>4</sup>
230/400 V	50 Hz	410 kVA	450 kVA

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.

Dimensions	
Length	3500 mm
Width	1400 mm
Height	2100 mm
Weight	3000 Kg

### Notes

- The applicable voltage range is 380V to 415V for 50Hz applications. For other voltages, please consult factory.
- This generating set is of fixed speed of 1500 rpm.
- KC410 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.
- KC450S 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 QSZ13-G7		
Cylinders & Arrangement	6; in-line		
Bore & Stroke (mm)	130 x 163		
Induction system	Turbo Charged & Aftercooled		
Combustion	Direct injection		
Cycle	4 stroke		
Compression ratio	17.0:1		
Cooling System	Water cooled		
Displacement	13.0 liters		
Lube oil capacity	75.3 liters Max		
Coolant capacity	23.1 liters		
Standard governor (Optional)	Electronic		
Engine Speed	1500 rpm		
Fuel Consumption (L/H) @ 100% Load	89	@ 50% Load	54
Fuel Consumption (L/H) @ 75% Load	73	@ 25% Load	29
Radiator Cooling Air Flow (m <sup>3</sup> /s)	10.3		
Emissions regulations	For non-regulated territories		
Exhaust temperature °C (max)	513		
Max exhaust gas flow (m <sup>3</sup> /min)	78.9		
Max. allowed back pressure (kPa)	13.0		

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 TAL047A		
Frequency / No. of poles	50Hz / 4P	Winding pitch	2/3
Ingress protection	IP23	AVR model	R150
Insulation class	H	Overspeed	2250 R.P.M.
Terminals (Optional)	6 (12)	Voltage regulation	$\pm 1\%$
Excitation system	SHUNT	Coolant air flow	0.9 m <sup>3</sup> /s