

| Ratings @ 0.8 PF | | Prime Rating | Stand by Rating |
|-----------------------|-------------------------|----------------------|-----------------------|
| Voltage* ¹ | Frequency* ² | IMG510* ³ | IMG570S* ⁴ |
| 220/380 V | 60 Hz | 512 kVA | 570 kVA |
| 127/220 V | 60 Hz | 512 kVA | 583 kVA |
| 277/480 V | 60 Hz | 512 kVA | 583 kVA |

| Dimensions | |
|------------|---------|
| Length | 3500 mm |
| Width | 1400 mm |
| Height | 2100 mm |
| Weight | 3100 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 220V, 380V to 480V for 60Hz applications. For other voltages, please consult factory.

2. This generating set is of fixed speed of 1800 rpm.

3. IMG510 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. IMG570S 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-G5 | | |
|-----------------------------------------------|-------------------------------|------------|------|
| 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 liters | | |
| Lube oil capacity | 75.3 liters Max | | |
| Coolant capacity | 23.1 liters | | |
| Standard governor (Optional) | Electronic | | |
| Engine Speed | 1800 rpm | | |
| Fuel Consumption (L/H) @ 100% Load | 102.1 | @ 50% Load | 51.8 |
| Fuel Consumption (L/H) @ 75% Load | 76.6 | @ 25% Load | 34.4 |
| Radiator Cooling Air Flow (m ³ /s) | 10.3 | | |
| Emissions regulations | For non-regulated territories | | |
| Exhaust temperature °C (max) | 445 | | |
| Max exhaust gas flow (m ³ /min) | 83.0 | | |
| 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 TAL047C OR Stamford | | |
|--------------------------|---------------------------------|--------------------|-----------------------|
| Frequency / No. of poles | 60Hz / 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 | 1.1 m ³ /s |

