

Ratings @ 0.8 PF			Prime	Stand
Alternator	Voltage*1	Frequency*2	IMG485*3	IMG530S*4
TAL473C (6S)	All voltages	60 Hz	483.6 kVA 386.9 Kw	527.3 kVA 421.8 Kw
TAL473A (8S)	220/380 V	60 Hz	478 kVA 382.4 Kw	525 kVA 420 Kw
TAL473A (6S)	220/380 V	60 Hz	450 kVA 360 Kw	495 kVA 396 Kw
TAL473A (6)	240/416 V 127/220 V 254/440 V 277/480 V	60 Hz	480 kVA 384 Kw	520 kVA 416 Kw

Dimensions	
Length	3200 mm
Width	1100 mm
Height	1900 mm
Weight	2615 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 480V for 60Hz applications. For other voltages, please consult factory.

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

3. IMG485 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. IMG530S 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 QSG12-G4	
Cylinders & Arrangement	6; Vertical in-line	
Bore & Stroke (mm)	132 x 144	
Induction system	Turbo charged & Aftercooled	
Combustion	Direct injection	
Cycle	4 stroke	
Compression ratio	17.0:1	
Cooling System	Water cooled	
Displacement	11.8 liters	
Lube oil capacity	34 liters Max	
Coolant capacity	48 liters	
Standard governor	Electronic; Cummins CM2880	
Engine Speed	1800 rpm	
Fuel Consumption (L/H) @ 100% Load	96	@ 50% Load 47
Fuel Consumption (L/H) @ 75% Load	69	@ 25% Load 26
Radiator Cooling Air Flow (m ³ /s)	8.4	
Emissions regulations	Fuel optimized	
Exhaust temperature °C (max)	550	
Max exhaust gas flow (m ³ /min)	67	
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 TAL0473C - [TAL473A] 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 (Optional)	SHUNT (AREP +or PMG)	Coolant air flow	1.1 m ³ /s - [0.58 m ³ /s]

