

Ratings @ 0.8 PF			Prime	Stand
Alternator	Voltage*1	Frequency*2	IMG575 *3	IMG635S*4
TAL473E (6S)	All voltages	60 Hz	575.3 kVA 460.3 Kw	634.8 kVA 508.0 Kw
TAL473C (8S)	220/380 V	60 Hz	570 kVA 456 Kw	627 kVA 502 Kw
TAL473C (6)	127/220 V 277/480 V	60 Hz	572.4 kVA 458 Kw	631 kVA 505 Kw

Dimensions	
Length	3750 mm
Width	1400 mm
Height	2100 mm
Weight	4000 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 switchable speed of 1500/1800 rpm.

3. IMG575 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. IMG635S 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 KTA19-G4	
Cylinders & Arrangement	6; Vertical in-line	
Bore & Stroke (mm)	159 x 159	
Induction system	Turbo charged & Aftercooled	
Combustion	Direct injection	
Cycle	4 stroke	
Compression ratio	13.9:1	
Cooling System	Water cooled	
Displacement	18.9 liters	
Lube oil capacity	50 liters Max	
Coolant capacity	93 liters	
Standard governor	Electronic; Cummins EFC	
Engine Speed	1800 rpm	
Fuel Consumption (L/H) @ 100% Load	122	@ 50% Load 65
Fuel Consumption (L/H) @ 75% Load	94	@ 25% Load 36
Radiator Cooling Air Flow (m ³ /s)	11.9	
Emissions regulations	Fuel optimized	
Exhaust temperature °C (max)	504	
Max exhaust gas flow (m ³ /min)	112	
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 TAL0473E - [TAL473C] 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]

