



POWER RATING

| | | | | | | |
|-------|----------------|---------|--------|----------|-----------|-----------------|
| 50 Hz | Prime power | 250 KVA | 200 KW | 1500 RPM | 400 Volts | 3 phase, 4 wire |
| | Stand By Power | 275 KVA | 220 KW | 1500 RPM | 400 Volts | 3 phase, 4 wire |
| 60 Hz | Prime power | | | 1800 RPM | 400 Volts | 3 phase, 4 wire |
| | Stand By Power | | | 1800 RPM | 400 Volts | 3 phase, 4 wire |

- Above ratings are based on conditions equivalent to those specified in ISO 3046/1, ISO 8528/1 and BS 5514/1. For other conditions and voltages consult, IMPAC sales office.

THE BASIC PACKAGE

GENERATING SET BUILD

Diesel generating set consists of an engine & alternator mono block unit mounted on a rigid steel base frame with anti vibration mounts and in built fuel tank sufficient for 6-8 hours of operation.

ALTERNATOR

Brushless, self excited, self regulating, Class H drip proof alternator, conforms to main international standards and regulations: IEC60034, NEMA MG 1.22, ISO 8528 etc.

GENERATOR CONTROL PANEL

Fully instrumented output panel, with state of the art generator control module having Low Oil Pressure, High Engine Temperature and Over/Under Frequency protections as standard.

ENGINE

Generating Set is powered by world renowned, 4 stroke, naturally aspirated /turbocharged and water cooled Perkins Engine.

COUPLING

Engine & alternator are coupled through flexible disc coupling on rigid base frame.

FUEL SYSTEM

Rotary fuel injection pump, mechanical/electronic governing conforms to ISO8528-5: 1993 (E), Class G2, ISO 046-4M3, spin-on full flow fuel oil and pre-filter, cold start aid.

LUBRICATING SYSTEM

Forced lubrication system with flat bottomed aluminum sump, spin-on full flow oil filters & oil cooler.

COOLING SYSTEM

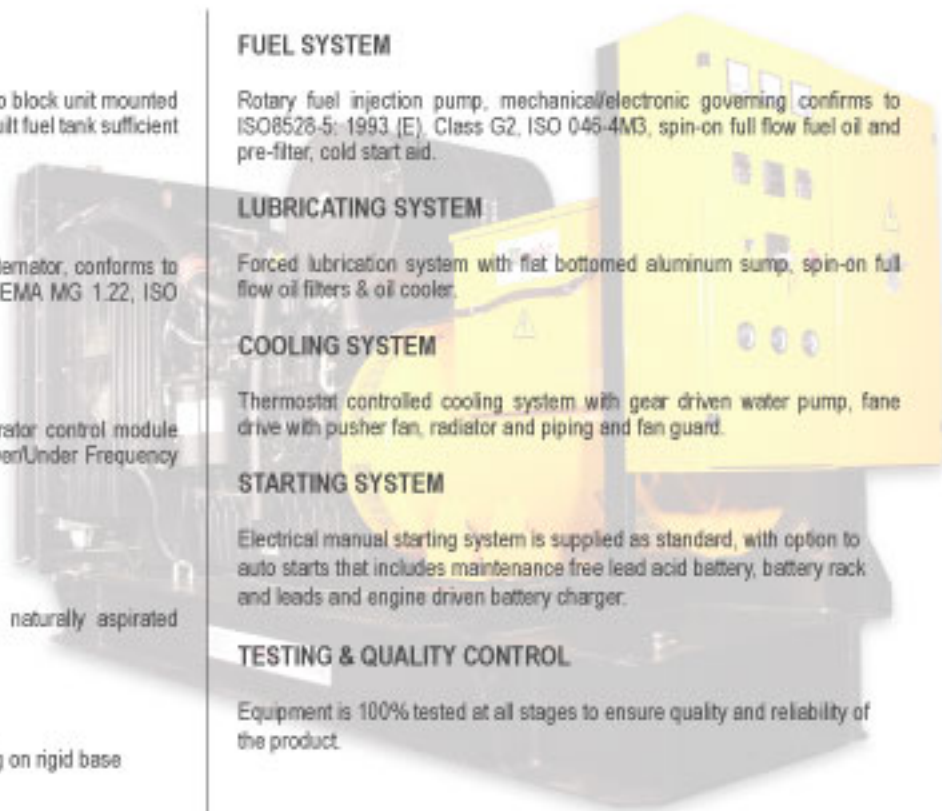
Thermostat controlled cooling system with gear driven water pump, fan drive with pusher fan, radiator and piping and fan guard.

STARTING SYSTEM

Electrical manual starting system is supplied as standard, with option to auto starts that includes maintenance free lead acid battery, battery rack and leads and engine driven battery charger.

TESTING & QUALITY CONTROL

Equipment is 100% tested at all stages to ensure quality and reliability of the product.



Technical Data

ENGINE

| | |
|---------------------|---------------------|
| Make | Perkins |
| Model | 1306-e87tag6 |
| Cylinders | 6 |
| Cycle | 4-stroke |
| Bore & Stroke | 116.6 Mm X 135.9 Mm |
| Compression Ratio | 16.9:1 |
| Induction System | Turbo Charged |
| Combustion System | Indirect Injection |
| Cooling System | Water Cooled |
| Displacement | 8.7 Liters |
| Lube Oil Capacity | 26.4 Liters |
| Coolant Capacity | 37.2 Liters |
| Governor | Electronic |
| Speed (Rpm) | 1500 |
| Fuel Consumption | (Litres/hour) |
| prime Power At 100% | 45 |
| prime Power At 75% | 36 |
| prime Power At 50% | 24 |
| electric System | 24 V DC |

ALTERNATOR

| | |
|-----------------------|------------------------|
| Make | Leroy Somer |
| Model | LSA 46.2 L6 |
| Regulation | ± 0.5 % |
| Efficiency | 95% At Full Load |
| Enclosure Protection | IP 23 |
| Insulation Class | H |
| Terminals | 12 |
| Frequency (Hz) | 50 60 |
| Coolant Air Flow | 0.43 m ³ /s |
| Short Circuit Current | 300 % |

SHIPPING

| | |
|------------|--------|
| Length | 2935mm |
| Width | 925mm |
| Height | 1605mm |
| Net Weight | 2265kg |

* RATING DEFINITIONS

Prime Power: Power available at variable load with a load factor not exceeding 80% of the prime power rating. Overload of 10% permitted for 1 hour during every 12 hour operation.

Stand By Power: Power available at variable load in the event of Mains power failure up to a max of 500 hrs per year of which up to 300 hrs may be continuous. No overload is permitted.

OPTIONS

- Auto start with auto transfer switch panel
- Manual over-ride system.
- Extra fuel storage tanks
- Acoustic & weather canopies
- Multi sets Synchronizing system
- Road towing two / four wheeler trailer mounted sets



IEC

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