

Diesel Generator Set Specifications Sheet- 5 kVA

| Generator Specifications: | |
|---|-------------------|
| Genset Rating | Prime Power |
| Genset Output (KVA / KW) | 5 /4 |
| Genset Model | GPA II – 5 |
| Engine rating or Max. Power at rated RPM, in KW (BHP) | 6.1 (8.3) |
| Engine Model | LDA 510 1B1(1510) |
| Engine Type | AIR COOLED |
| No. of Cylinders / Cylinder arrangement | Single |
| Displacement (L) | 0.51 |
| Bore & Stroke (mm) | 85x90 |
| Compression ratio | 18:1 |
| Rated RPM | 3000 |
| Governor: Type /Class of Governing | Mechanical |
| Over speed trip (rpm) | 3200 |
| Air cleaner type / Qty | Oil bath 01 |
| Exhaust system | |
| Maximum allowable back pressure, kPa | 4.5 |

| Engine Electrical system: 50 Hz | |
|---|----------------|
| Static Battery Charger Volts / Current (DC) | 12V / 10 Amps |
| Battery Voltage (DC) / Capacity (AH) | 12 VDC / 35 AH |

| Lubricating Oil system : | |
|---------------------------------|--------------------------|
| Lub oil sump capacity (L) | 1.75 |
| Oil change period (Hrs.) | 300 |
| Oil consumption (%SFC) | ≤0.1 |
| Recommended Oil Grade | Greaves Maxtherm API CF4 |

| Fuel Consumption : | |
|---------------------------|-----|
| @ 100 % Load (LPH) | 2.0 |
| @ 75 % Load (LPH) | 1.5 |
| @ 50 % Load (LPH) | 1.3 |
| @ 25 % Load (LPH) | 1.1 |

| Alternator Specification: | |
|---|--|
| Type | 2 Pole , Rotating field |
| Exciter Type | Brushless |
| Voltage regulator | Capacitor |
| Insulation | Class H , |
| Temperature rise | 125 Deg. C |
| Bearing: Quantity , type | 1, Sealed |
| Coupling | Conical Shaft, close coupled SAE J609B |
| Voltage regulation : No load to full load | +5%, -10% |
| One step load acceptance | 100% of rating |

Standard scope of supply:

Engine with direct injection, Air-cooled engine, Single cylinder, 4 stroke, rated at 3000RPM, conforming to **ISO 3046 / BS 5514** has the following specifications:

- Unit Injection Mechanical Pump
- Mechanical governor
- Air Cooled
- Filters - fuel, lube oil
- Oil Bath Air Filter
- Suitable for single bearing alternator
- Starting motor – Electric, Static Battery Charger
- First fill lube oil

Alternator: Linz/ Crompton/ NSM, brushless Capacitor alternator

- Self-excited, AVR/Capacitor-regulated
- Class 'H' insulation
- Salient pole revolving field
- Single bearing

Acoustic enclosure– Powder coated, weather proof Canopy. Engine alternator assembly mounted on AVM with Silencer and S.S exhaust bellow suitably optimized to meet stringent sound emission standards as laid down by MOEF / CPCB

- With High Quality Blower forced Ventilation.
- Base rail with draw-out type fuel tank is provided, air Vent, inlet and outlet connections, manhole etc.
- Sub-base fuel tank with 15 liters capacity.
- 12 V dry, batteries with connecting leads and terminals

Control panel: Powder coated control panel manufactured with CRCA sheet, Control panel having following features:

- MCB of suitable rating with **short circuit** protection
- Start arrangement - Push Button on Controller.
- Copper conductor cables between Alternator & Control panel.
- 3 Pin Socket for Easy Plug In.

Literature:

Operation Manual
General maintenance & installation Guideline
Foundation Drawing
Parts manual


Standard Warranty:

1.5 years (2000 hrs.) from the date of commissioning OR 2 year from the date of invoice Whichever Occurs First.

Greaves Power Advantages:

- Rugged & Low maintenance cost proven engine over decades.
- Easy availability Of Spare parts across country.
- Higher HP Engine for Better reliability.
- Better block Load capability.
- Extended warranty of 1.5 years.
- Liberal Design for Easy accessibility, maintenance & better Cooling.
- Silent Genset with Residential Type Silencer.
- Power Plug Socket for easy power at house hold application.

Generator Controller

| CONTROLLER TYPE | FEATURES | DISPLAY PARAMETER | AUDIO VISUAL WARNING |
|---|---|---|--------------------------|
| <p>DSE3110 -1Phase DSE4620 -3 Phase Control Unit</p>  | Simple Controller user friendly | Low Engine Oil pressure indication at fault | Low Oil pressure |
| | Two Line LCD Display | High Oil temperature Indication at fault | High Coolant temperature |
| | The unique integrated DG set controller | Emergency Stop | Fault LED |
| | Incorporate engine & Alternator parameter | Battery voltage | Over/under speed |
| | Remote start | DG set Running Hours | |
| | | Fault Display | |

Optional Items:

Electrical Systems: Alternator Space Heater / Higher Rating Battery / Battery Charger / Battery Heater / Copper Bus Bar / Sealable kWh / Microprocessor Based AMF Controller / GPRS based Generator Monitoring System

Fuel System: Flexible Fuel Lines / SS fuel lines / Fuel Pressure Gauge

Enclosed Unit: Sound Enclosure – Super silent / External Lt. Fuel Tank
Miscellaneous: Air Cleaner (Heavy Duty)/Air Cleaner Restriction Indicator / Digital

Typical Enclosed GENSET Dimensions & weight

| Model | Rating | Length(mm) | Width(mm) | Height(mm) | Weight(kg) |
|---------|--------|------------|-----------|-------------------------------------|------------|
| GPAII-5 | 5 | 1110 | 750 | 800 without wheel 863 with wheel | 300 |

