Diesel Generator Set Specifications Sheet- 5 kVA

**Generator Specifications:**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Genset Rating</td>
<td>Prime Power</td>
</tr>
<tr>
<td>Genset Output ( KVA / KW)</td>
<td>5 / 4</td>
</tr>
<tr>
<td>Genset Model</td>
<td>GPA II – 5</td>
</tr>
<tr>
<td>Engine rating or Max. Power at rated RPM, in KW (BHP)</td>
<td>6.1 (8.3)</td>
</tr>
<tr>
<td>Engine Model</td>
<td>LDA 510 1B1(1510)</td>
</tr>
<tr>
<td>Engine Type</td>
<td>AIR COOLED</td>
</tr>
<tr>
<td>No. of Cylinders / Cylinder arrangement</td>
<td>Single</td>
</tr>
<tr>
<td>Displacement (L)</td>
<td>0.51</td>
</tr>
<tr>
<td>Bore &amp; Stroke (mm)</td>
<td>85 x 90</td>
</tr>
<tr>
<td>Compression ratio</td>
<td>18.1</td>
</tr>
<tr>
<td>Rated RPM</td>
<td>3000</td>
</tr>
<tr>
<td>Governor: Type / Class of Governing</td>
<td>Mechanical</td>
</tr>
<tr>
<td>Over speed trip (rpm)</td>
<td>3200</td>
</tr>
<tr>
<td>Air cleaner type / Qty</td>
<td>Oil bath 01</td>
</tr>
</tbody>
</table>

**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

**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

<table>
<thead>
<tr>
<th>CONTROLLER TYPE</th>
<th>FEATURES</th>
<th>DISPLAY PARAMETER</th>
<th>AUDIO/VISUAL WARNING</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSE3110 -1Phase</td>
<td>Simple Controller user friendly</td>
<td>Low Engine Oil pressure</td>
<td>Low Oil pressure</td>
</tr>
<tr>
<td>DSE4620 -3 Phase</td>
<td>Two Line LCD Display</td>
<td>High Oil temperature</td>
<td>High Coolant</td>
</tr>
<tr>
<td><strong>Control Unit</strong></td>
<td></td>
<td>Indication at fault</td>
<td>temperature</td>
</tr>
<tr>
<td></td>
<td>The unique integrated DG set</td>
<td>Emergency Stop</td>
<td>Fault LED</td>
</tr>
<tr>
<td></td>
<td>incorporate engine &amp;</td>
<td>Battery voltage</td>
<td>Over/under speed</td>
</tr>
<tr>
<td></td>
<td>Alternator parameter</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Remote start</td>
<td>DG set Running Hours</td>
<td>Fault Display</td>
</tr>
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**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 / ExternalLt. Fuel Tank

**Miscellaneous:** Air Cleaner (Heavy Duty)/Air Cleaner Restriction Indicator / Digital

<table>
<thead>
<tr>
<th>Model</th>
<th>Rating</th>
<th>Length(mm)</th>
<th>Width(mm)</th>
<th>Height(mm)</th>
<th>Weight(kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GPAll-5</td>
<td>5</td>
<td>1110</td>
<td>750</td>
<td>800 without wheel</td>
<td>300</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>863 with wheel</td>
<td></td>
</tr>
</tbody>
</table>