1100 Series
1103A-33TG1
Diesel Engine - ElectropaK

45.6 kWm at 1500 rpm
53.9 kWm at 1800 rpm

Compact, Efficient Power
- 1100 Series is the result of an intensive period of customer research that has guided the development of the range.
- The new 3.3 litre cylinder block ensures bore roundness is maintained under the pressures of operation. It also ensures combustion and mechanical noise is lowered.
- A new cylinder head has re-established Perkins mastery of air control.

Quality by Design
- Product design and Class A manufacturing improvements enhance product reliability while maintaining Perkins legendary reputation for durability.

Cost Effective Power
- Compact size and low noise.
- Lower fuel consumption and oil use.
- 500 hour service intervals.
- 2 year warranty.

Product Support
- Perkins actively pursues product support excellence by ensuring our distribution network invest in their territory - strengthening relationships and providing more value to you, our customer.
- Through an experienced global network of distributors and dealers, fully trained engine experts deliver total service support around the clock, 365 days a year. They have a comprehensive suite of web based tools at their fingertips covering technical information, parts identification and ordering systems, all dedicated to maximising the productivity of your engine.
- Throughout the entire life of a Perkins engine, we provide access to genuine OE specification parts and service. We give 100% reassurance that you receive the very best in terms of quality for lowest possible cost .. wherever your Perkins powered machine is operating in the world.

<table>
<thead>
<tr>
<th>Engine speed (rev/min)</th>
<th>Type of Operation</th>
<th>Typical generator output (net)</th>
<th>Engine power</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>kVA</td>
<td>kW (kWe)</td>
</tr>
<tr>
<td></td>
<td>Prime power</td>
<td>45.0</td>
<td>36.0</td>
</tr>
<tr>
<td></td>
<td>Standby power</td>
<td>49.6</td>
<td>39.7</td>
</tr>
<tr>
<td>1500</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1800</td>
<td>Prime power</td>
<td>53.1</td>
<td>42.5</td>
</tr>
<tr>
<td></td>
<td>Standby power</td>
<td>58.7</td>
<td>46.9</td>
</tr>
</tbody>
</table>

The above ratings represent the engine performance capabilities to conditions specified in ISO 8528-1, ISO 3046/1:1986, BS5514/1
Derating may be required for conditions outside these; consult Perkins Engines Company Limited

Fuel specification: BS 2869: Part 2 1998 Class A2 or DIN EN 590
Lubricating oil: 15W40 to API CG4

Rating Definitions
Prime power: Variable load. Unlimited hours usage with an average load factor of 80% of the published prime power over each 24 hour period. A 10% overload is available for 1 hour in every 12 hours of operation.
Standby power: Variable load. Limited to 500 hours annual usage, up to 300 hours of which may be continuous running. No overload is permitted.

BDC for engine manuals and specs https://barringtondieselclub.co.za/
1100 Series
1103A-33TG1

Standard ElectropaK Specification

Air inlet
- Mounted air filter

Fuel system
- Rotary type pump
- Ecoplus fuel filter

Lubrication system
- Wet sump with filler and dipstick
- Spin-on oil filter

Cooling system
- Thermostatically controlled system with gear-driven circulation pump and belt-driven pusher fan
- Mounted radiator and piping

Electrical equipment
- 12 volt starter motor and 12 volt 65 amp alternator with DC output
- 12 volt shutdown solenoid energised to run

Flywheel and housing
- High inertia flywheel to SAE J620 Size 10/111/2
- SAE 3 flywheel housing

Mountings
- Front engine mounting bracket

Literature
- User’s Handbook

Optional equipment
- Woodward electronic governor (LCG2)
- Workshop manual
- Parts book

General Data
- Number of cylinders: 3 vertical in-line
- Bore and stroke: 105 x 127 mm
- Displacement: 3.3 litres
- Aspiration: Turbocharged
- Cycle: 4 stroke
- Combustion system: Direct injection
- Compression ratio: 17.25:1
- Rotation: Anti-clockwise viewed from flywheel
- Cooling system: Water-cooled
- Total lubrication system capacity: 7.9 litres
- Total coolant capacity: 10.2 litres
- Dimensions: Length 1049 mm Width 634 mm Height 951 mm
- Dry Weight (approx.): 420 kg

Fuel Consumption

<table>
<thead>
<tr>
<th>Engine Speed</th>
<th>1500 rev/min</th>
<th>1800 rev/min</th>
</tr>
</thead>
<tbody>
<tr>
<td>UK g/hr</td>
<td>l/hr</td>
<td>UK g/hr</td>
</tr>
<tr>
<td>At standby power</td>
<td>2.6</td>
<td>12.0</td>
</tr>
<tr>
<td>At prime power</td>
<td>2.3</td>
<td>10.7</td>
</tr>
<tr>
<td>At 75% of prime power</td>
<td>1.8</td>
<td>8.2</td>
</tr>
<tr>
<td>At 50% of prime power</td>
<td>1.2</td>
<td>5.7</td>
</tr>
</tbody>
</table>

Final weight and dimensions will depend on completed specification.

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