The Perkins 2300 Series is a family of well-proven 6 cylinder in-line diesel engines, designed to address today’s uncompromising demands within the power generation industry with particular aim at the standby market sector. Developed from a proven heavy-duty industrial base, the engine offers superior performance and reliability.

The 2306C-E14TAG2 is a turbocharged and air-to-air charge-cooled 6-cylinder diesel engine. Its premium features provide economic and durable operation for standby duty, low gaseous emissions, overall performance and reliability.

The above ratings represent the engine performance capabilities to conditions specified in ISO 8528/1, ISO 3046/1:1986, BS 5514/1. Derating may be required for conditions outside these; consult Perkins Engines Company Limited.

Generator powers are typical and are based on an average alternator efficiency and a power factor (cos. φ) of 0.8.


Lubricating oil: 15W40 to API CG4.

Rating Definitions

Baseline Power: Power available for continuous full load operation. Overload of 10% permitted for 1 hour in every 12 hours operation
Prime Power: Power available at variable load with a load factor not exceeding 85% of the prime power rating. Overload of 10% is permitted for 1 hour in every 12 hours operation
Standby Power: Power available in the event of a main power network failure up to a maximum of 500 hours per year of which up to 300 hours may be run continuously. Load factor may be up to 100% of standby power. No overload is permitted.

All information in this document is substantially correct at time of printing and may be altered subsequently
Standard ElectropaK Specification

Air inlet
- Mounted air filter

Fuel system
- Mechanically actuated electronically controlled unit fuel injectors with full authority electronic control
- Governing to ISO 8528-5 class G3 with isochronous capability
- Replaceable ‘ecoplus’ fuel filter elements with primary filter/water separator
- Fuel cooler

Lubrication system
- Wet sump with filler and dipstick
- Full-flow replaceable ‘ecoplus’ filter
- Oil cooler integral with filter header

Cooling system
- Gear-driven circulating pump
- Mounted belt-driven fan
- Radiator supplied loose incorporating air-to-air charge cooler
- System designed for ambients up to 50ºC

Electrical equipment
- 24 volt starter motor and 24 volt 70 amp alternator with DC output
- ECM mounted on engine with wiring looms and sensors
- 3 level engine protection system

Flywheel and housing
- High inertia flywheel to SAE J620 Size 14
- SAE ½ flywheel housing

Mountings
- Front engine mounting bracket

Literature
- User’s Handbook and Parts Manual

Optional Equipment
- 110 volt/240 volt immersion heater
- Additional speed sensor
- Temperature and pressure sensors for gauges
- Electric hours counter
- Air filter rain hood
- Twin starters/facility for second starter
- Tool kit
- Additional manuals

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2300 Series
2306C-E14TAG2

Fuel Consumption
<table>
<thead>
<tr>
<th>Engine Speed</th>
<th>1500 rev/min</th>
<th>1800 rev/min</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>g/kWh</td>
<td>l/hr</td>
</tr>
<tr>
<td>Standby</td>
<td>213</td>
<td>85</td>
</tr>
<tr>
<td>Prime power</td>
<td>212</td>
<td>75</td>
</tr>
<tr>
<td>Baxeload power</td>
<td>215</td>
<td>60</td>
</tr>
<tr>
<td>75% of prime power</td>
<td>218</td>
<td>58</td>
</tr>
<tr>
<td>50% of prime power</td>
<td>230</td>
<td>41</td>
</tr>
</tbody>
</table>

General Data
- Number of cylinders: 6
- Cylinder arrangement: Vertical in-line
- Cycle: 4 stroke
- Induction system: Turbocharged and air-to-air charge cooled
- Combustion system: Direct injection
- Cooling system: Water-cooled
- Bore and stroke: 137 x 165 mm
- Displacement: 14.6 litres
- Compression ratio: 15.9:1
- Direction of rotation: Anti-clockwise, viewed on flywheel
- Total lubrication system capacity: 68 litres
- Total coolant capacity: 47 litres
- Total dry weight: 1690 kg
- Dimensions: Length 2422 mm
- Width 1107 mm
- Height 1614 mm

Final weight and dimensions will depend on completed specification.

For 1/2 TA Luft compliance please see Perkins’ Technical Data Sheet.