



# 1100 Series

## 1106C-E60TA

129.5kW/174.5 bhp

The 1100 Series engine family is the successor to the very successful New 1000 Series. It has been inspired by and led by the future requirements of our customers to meet the needs of the construction, materials handling, agricultural/turf and genset markets.

Built to the most demanding standards, the 1100 Series engines meet all the requirements of both EC Stage 2 and USA EPA Tier 2 off-highway emissions legislation for 2003 and bring significant improvements over the 1100 Series' highly successful predecessors.

The 1106C-E60TA is a quiet 6.0 litre fully electronic unit delivering improved performance and reduced operating costs in an efficient package ideal for a range of off-highway applications.

In the 1100 Series, Perkins have *designed to perform ... delivered with choice.*

### Class leading performance

The 1106C-E60TA provides an increase in torque capability over its highly successful predecessor. Improvements have also been made to the torque curve of the engine to give up to 12% more low speed torque and torque back up to 37%.

### Cleaner and Quieter

The 1106C-E60TA operates with smoke levels barely visible to the naked eye. The range includes the introduction of Eco-filtration for both fuel and oil that are of a high quality construction with a re-usable canister, a disposable inner element and a simpler service process. Improvements have also been made to bare engine noise over its predecessor. Concentrating on reduced noise levels throughout the complete operating range of the engine from idle through to full load rated speed. This has been achieved through numerous individual product developments, including a new cylinder block design and developments to the front end gear train.

### Quality by design

Product design and process improvements have been implemented from early design stage to enhance both engine reliability and durability. Perkins have also taken the opportunity to improve the 'design for assembly' through simplified sub-assemblies and improved joint and sealing technologies

### Electronics

Having recognised the need for flexibility Perkins now offers full authority electronics as standard on the 1106C-E60TA. This allows an easy introduction into the full spectrum of choice that is made available through the use of electronic control from basic engine to total machine integration including features such as cruise control, throttle response, engine history and machine protection.

### Ease of installation

The changeover for existing New 1000 Series customers to EC Stage 2 and USA EPA Tier 2 product is made easy through the carryover of existing envelope size and mounting points therefore minimising installation issues in machine redesign.

### Lower operating costs

Service intervals are now set at 500 hours as standard and the warranty period has been extended to 2 years with 3 years on major components. In addition, fuel economy has improved as much as 6%.

### Product Support

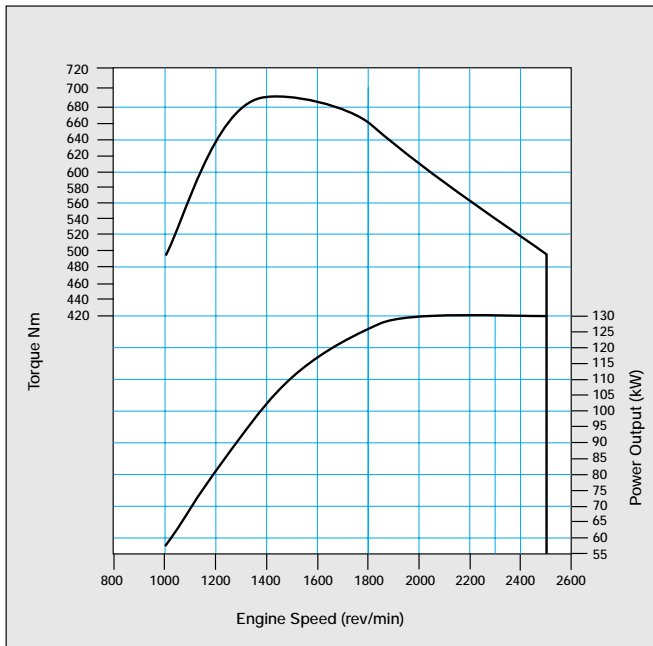
Total worldwide service continues to be provided through a network of 4000 distributors and dealers. This is enhanced by the introduction of TIPSS (The Integrated Parts and Service System) which represents a step change in diesel engine support. TIPSS enables customers to electronically specify and order parts as well as service electronic and mechanical engine with on-line guides and service tools.

*designed to perform ... delivered with choice*

Performance Data	Gross Intermittent ISO/TR 14396	Speed rev/min
Power Output (kW)	129.5	2500
Power Output (bhp)	174.4	2500
Peak Torque (Nm)	695.0	1400
Peak Torque (lbf ft)	512.0	1400

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### Engine Specification

- Cast iron engine block
- Flywheel and flywheel housing
- Ecoplus Oil and Fuel Filters
- Thermostart starting aid
- Cast iron multi-piece exhaust manifold
- Coolant pump gear driven
- 12 or 24 volt Alternators
- Provision for PTOs
- Choice of cooling fans
- Starter motor 12 or 24 volt
- Choice of turbocharger outlet orientation
- Choice of sump
- Choice of dipstick positions (left or right)
- Choices of fill positions
- Choice of water outlet

### Option Groups

A selection of optional items is available to enable the customer to prepare a specification precisely matched to his needs.

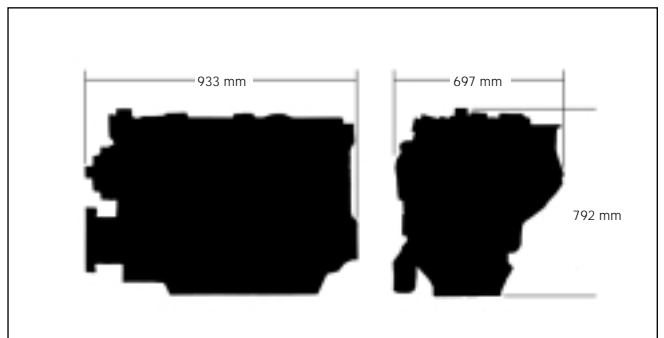
### General Data

<b>Bore and stroke</b>	100mm x127mm
<b>Number of cylinders</b>	In-line 6 cylinder
<b>Cubic capacity</b>	5,98 litres (365 cu.in.)
<b>Cycle</b>	4 stroke
<b>Aspiration</b>	Turbo charged air/air charge cooling
<b>Combustion system</b>	Direct injection
<b>Compression ratio</b>	17.25:1
<b>Engine rotation</b>	Anti-clockwise viewed on flywheel
<b>Governing</b>	0% 2% 5% 10%
<b>Cooling system</b>	Pressurised water
<b>Length</b>	933 mm
<b>Width</b>	697 mm
<b>Height</b>	792 mm
<b>Dry weight</b>	505 kg



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