



1100 Series

Diesel Engine - Industrial Open Power Unit

1106C-E60TA

114.5 kW/153.5 bhp

The new 1100 Series family of IOPU engines boasts unsurpassed productivity levels.

By combining the market leading 1100 Series engine with a matched cooling and air filtration pocket, Perkins is confident that our engines will meet increasing customer demands. The new 1100 Series range provides customers with a compact and self-contained engine package, that optimises performance and maximises value.

Perkins has transformed the threat of new emission laws into the opportunity to develop an engine with improved performance and reliability. Not only does the 1106 comply to USA EPA Tier 2 and EU Stage 2 off-highway emissions legislation, it also exceeds customer expectations on performance. Perkins has consequently created a unique, customer inspired engine family which is undoubtedly a benchmark within the diesel engine market.

Class Leading Performance

The 1106C-E60TA boasts an even higher torque capacity than its successful predecessor. The new electronically-controlled engine has 12% more low speed torque with torque back-up increased by 37%.

Cleaner and Quieter

Extensive research into emissions has resulted in an engine which operates with smoke levels barely visible to the naked eye.

Ease of Installation

Design considerations to minimise installation issues provide easy and efficient engine replacement through the carryover of the existing envelope size and mounting points. The addition of a matched radiator to the IOPU engine package allows the engine to run at its optimum

Quality by Design

Improvements to all aspects of engine production: from concept through to manufacturing, has resulted in a higher level of engine performance, enhanced reliability and greater durability. This combined with extensive investigation into manufacturing processes has simplified subassemblies and improved joint and sealing technology.

Full Authority Electronics

The addition of full authority electronic control on the 1106C-E60TA ensures maximised performance along with the best possible machine integration. Benefits include:

- Reduced fuel consumption
- Enhanced response and load acceptance
- Improved cold start capability
- Removed requirement to fit independent throttle cables

Lower Operating Costs

Service intervals have doubled and are now set at 500 hours as standard. This confidence in engine reliability has also enabled the warranty period to be extended to 2 years with 3 years on major components. Customers will also benefit from increased fuel economy which has been improved by as much as 6%.

Product Support

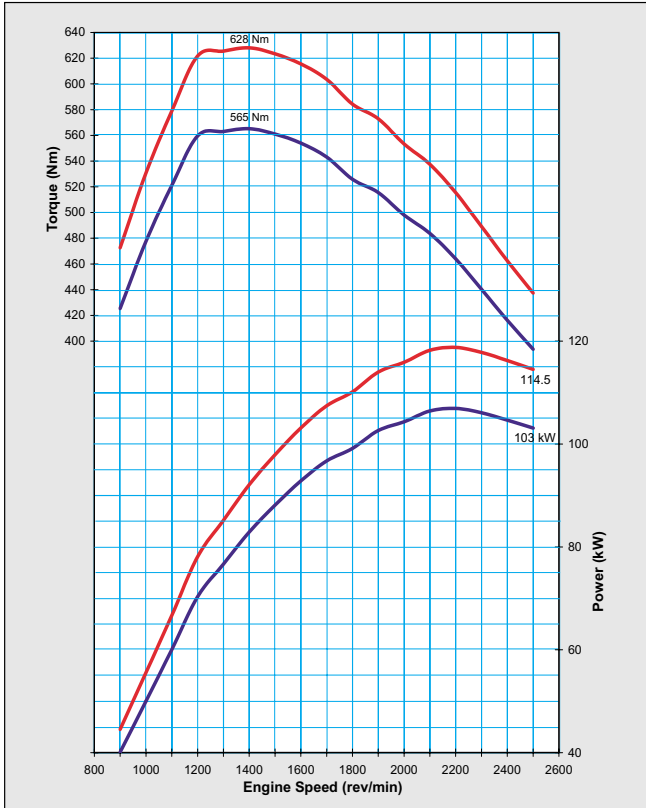
Total worldwide service continues to be provided through a network of 4000 distributors and dealers. This is enhanced by the introduction of TIPSS (The Integrated Parts and Service System) which represents a step change in diesel engine support. TIPSS enables customers to specify and order parts electronically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

Designed to perform...delivered with choice

Engine performance	Net intermittent	Engine speed	Net continuous	Engine speed
Max power kW	114.5	2500	103	2500
Max power bhp	153.5	2500	138	2500
Max torque Nm	628	1400	565	1400
Max torque lbf ft	463	1400	417	1400

Power for a run-in engine after 60 hours
Rating standard ISO/TR 14396

1100 Series 1106C-E60TA



Lower speed ratings may not be read from this curve. For other ratings consult Perkins Engines Company

Engine Specification

Cast iron engine block
SAE 3 flywheel housing
Flywheel
Spin-on oil filter
Thermostart starting aid
12 or 24 V alternator
12 or 24 V starter motor
LHS PTOs
Puller and pusher fans
Radiator incorporating air-to-air charge cooler
Aluminium flat-bottomed lub oil sump with dipstick on lhs
Gear driven coolant pump



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All information in this document is substantially correct at the time of printing but may be altered subsequently by the Company

Option Groups

In order to meet the varying demands of our individual customers, Perkins provide a wide selection of optional items. These enable companies to produce a customised end product, precisely matched to their needs.

General Data

Bore and stroke	100 mm x 127 mm
Number of cylinders	In-line 6 cylinders
Cubic capacity	5,98 litres (365 cu.in.)
Cycle	4 stroke
Aspiration	Turbocharged, air to air charge cooled
Combustion system	Direct injection
Compression ratio	17.25:1
Engine rotation	Anticlockwise viewed on flywheel
Governing	Full authority electronic
Cooling system	Pressurised coolant
Total lubrication capacity	
Total coolant capacity	26 litres
Length	1542 mm
Width	778 mm
Height	965 mm
Dry weight	650kg

