

# 1100 Series

## 1104C-44T

74.5 kW/99.9 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 meets all the requirements of both EC Stage 2 and USA EPA Tier 2 off-highway emissions legislation for 2004 and brings significant improvements over the 1100 Series highly successful predecessors.

The 1104C-44T is a quiet 4.4 litre 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

- Surpassing even its highly successful predecessors, this exciting range adds up to 8% more low speed torque and 34% additional torque back-up depending on model.

### Cleaner and Quieter

- The new timing gear train, cylinder block design and use of sound-deadened materials are just some aspects of reducing bare engine noise by up to 3 dBA across the speed range.
- High quality filtration of both oil and fuel improves reliability and uses a disposable inner element for cleaner, simpler servicing.
- Certified to emissions standards, these engines lower smoke to a point barely visible to the naked eye.

### Quality by Design

- 'Now designed for assembly' simplified sub-assemblies, improved joint and sealing technologies enhance both reliability and durability.

### Ease of Installation

- Minimising installation issues in machine changeover, envelope size and mounting points easily accommodate the update from earlier generation products.

### Lower Operating Costs

- Service intervals are now set at 500 hours as standard.
- Warranty moves on to two years - three on major components.
- Fuel economy is improved by as much as 6%.

### Product Support

- Total worldwide service is provided through a network of 4,000 distributors and dealers.
- TIPSS - The Integrated Parts and Support System enables customers to specify and order parts electronically as well as service engines with on-line guides and service tools.

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delivered with choice

Performance Data	Gross Intermittent (ISO/TR 14396)	Speed (rev/min)
Power Output (kW)	74.5	2300
Power Output (bhp)	99.9	2300
Peak Torque (Nm)	415	1350
Peak Torque (lbf ft)	306	1350

Power output for a run-in engine after 60 hours.

Photographs are for illustrative purposes and may not reflect final specification.

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

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### Engine Specification

- Cast iron engine block
- Flywheel and flywheel housing
- Glow plug starting aid
- Integral Inlet manifold
- Cast iron exhaust manifold - centre side outlet
- Gear-driven coolant pump
- 12 and 24 volt Alternator 55, 65, 85, 100 Amp
- Provision for PTOs
- Choice of cooling fans
- 12 and 24 volt Starter motor
- Plastic J2044 fuel system standard
- Choice of turbo outlet orientation
- Choice of lub oil sump
- Choice of dipstick positions (left or right)
- Choices of filler positions
- Choice of water outlet
- Balancer or non-balancer

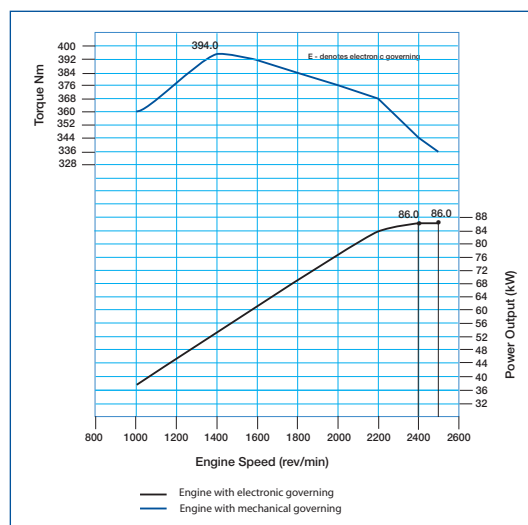
### General Data

Number of cylinders	4 in-line
Bore and stroke	105 mm x 127 mm
Displacement	4.4 litres
Aspiration	Turbocharged
Cycle	4 stroke
Combustion system	Direct injection
Compression ratio	18.2:1
Rotation	Anti-clockwise viewed on flywheel
Cooling system	Pressurised water
Dimensions	Length 663 mm Width 597 mm Height 810 mm
Dry weight	372 kg

Final weight and dimensions will depend on completed specification.

### Option Groups

A selection of optional items is available to enable the customer to prepare a specification precisely matched to customer needs. These involve alternative ratings, exhaust outlets, a range of flywheels and flywheel housings to suit various clutches and transmissions and a selection of power take-offs.



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