

1100 Series 1104C-44 Industrial

64 kW / 85.8 hp

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 from 2004 and brings significant improvements over the 1100 Series highly successful predecessors.

The 1104C-44 is a quiet 4.4 litre unit, delivering improved performance with reduced operating costs.

Built to meet our customers' needs, this efficient Perkins engine is ideal for a large range of off-highway applications.



| Specification | | |
|------------------------|------------------------------------|---------------------|
| Number of cylinders | 4 in-line | |
| Bore and stroke | 105 x 127 mm | 4.3 x 5.0 in |
| Displacement | 4.4 litres | 269 in ³ |
| Aspiration | Natural | |
| Cycle | 4 stroke | |
| Combustion system | Direct injection | |
| Compression ratio | 19.3:1 | |
| Rotation | Anti-clockwise, viewed on flywheel | |
| Cooling system | Pressurised water | |
| Total coolant capacity | 7 litres | 1.9 US gal |

www.perkins.com

Photographs are for illustrative purposes only and may not reflect final specification. All information in this document is substantially correct at time of printing and may be altered subsequently. Final weight and dimensions will depend on completed specification.

Publication No. PN1643/12/14 Produced in England ©2014 Perkins Engines Company Limited

 **Perkins**[®]

THE HEART OF EVERY GREAT MACHINE

1100 Series 1104C-44 Industrial

64 kW / 85.8 hp

Features and benefits

Class leading performance

- Surpassing even its highly successful predecessors, this exciting range adds up to 17% more low speed torque and 26% 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
- Fuel economy is improved by as much as 6%
- **Warranties and Service Contracts**

We provide one-year warranties for constant speed engines and two-year warranties for variable speed models, as standard. These are supported by multilevel Extended Service Contracts that can be bought additionally
Discover more: www.perkins.esc

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
- To find your local distributor: www.perkins.com/distributor

www.perkins.com

Photographs are for illustrative purposes only and may not reflect final specification.
All information in this document is substantially correct at time of printing and may be altered subsequently.
Final weight and dimensions will depend on completed specification.

Publication No. PN1643/12/14 Produced in England ©2014 Perkins Engines Company Limited

 **Perkins**[®]

THE HEART OF EVERY GREAT MACHINE

1100 Series 1104C-44 Industrial

64 kW / 85.8 hp

Technical information

- 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
- Provision for PTOs
- Balancer or non-balancer

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.

www.perkins.com

Photographs are for illustrative purposes only and may not reflect final specification.
All information in this document is substantially correct at time of printing and may be altered subsequently.
Final weight and dimensions will depend on completed specification.

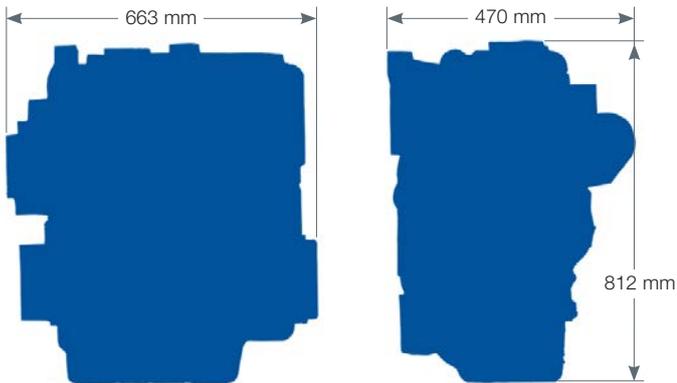
Publication No. PN1643/12/14 Produced in England ©2014 Perkins Engines Company Limited

 **Perkins**[®]

THE HEART OF EVERY GREAT MACHINE

1100 Series 1104C-44 Industrial

64 kW / 85.8 hp



Engine package weights and dimensions

| | | |
|--------------|--------|---------|
| Length | 663 mm | 26.1 in |
| Width | 470 mm | 18.5 in |
| Height | 812 mm | 32.0 in |
| Weight (dry) | 357 kg | 787 lb |

www.perkins.com

Photographs are for illustrative purposes only and may not reflect final specification.
All information in this document is substantially correct at time of printing and may be altered subsequently.
Final weight and dimensions will depend on completed specification.

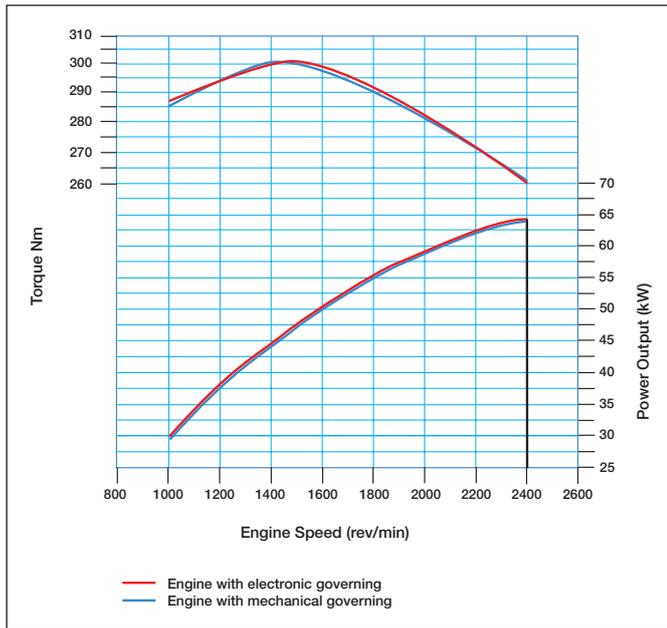
Publication No. PN1643/12/14 Produced in England ©2014 Perkins Engines Company Limited

 **Perkins**[®]

THE HEART OF EVERY GREAT MACHINE

1100 Series 1104C-44 Industrial

64 kW / 85.8 hp



Note: lower speed ratings cannot be read off this curve

| Performance data | Gross intermittent (ISO/TR 14396) | Speed rpm |
|----------------------|-----------------------------------|-----------|
| Power output (kW) | 64.0 | 2400 |
| Power output (hp) | 85.8 | 2400 |
| Peak torque (Nm) | 302.0 | 1400 |
| Peak torque (lbf·ft) | 226.0 | 1400 |

Power output for a run-in engine after 60 hours

www.perkins.com

Photographs are for illustrative purposes only and may not reflect final specification. All information in this document is substantially correct at time of printing and may be altered subsequently. Final weight and dimensions will depend on completed specification.

Publication No. PN1643/12/14 Produced in England ©2014 Perkins Engines Company Limited

 **Perkins**[®]

THE HEART OF EVERY GREAT MACHINE