

1104C-44 Industrial Open Power Unit

58-64 kW (77-86 hp) @ 2400 rpm

EU Stage II/U.S. EPA Tier 2 equivalent

Whatever your application, there's an 1104 engine for you. Part of the Perkins 1100 Series, the range's 4 cylinder, 4.4 litre engines are smooth and quiet in operation. Designed to meet EU Stage II/IIIA and U.S. EPA Tier 2/Tier 3 equivalent emissions standards, the 1104 range offer a choice of mechanical or electronically controlled common rail engines. Electronically controlled engines deliver the right fuel injection for the load applied to the engine. Common front and rear ends, connection points and components across the range, making it easy to install a different 1100 Series engine in your application. Naturally aspirated engine designed to meet EU Stage II/U.S. EPA Tier 2 equivalent emissions standards for off-road machines.



Specifications

Power Rating		
Minimum Power	58 kW	77 HP
Maximum Power	64 kW	86 HP
Maximum Torque	302 Nm @ 1400 rpm	226 lb-ft @ 1400 rpm
Rated Speed	2400 rpm	

Emission Standards	
Emissions	EU Stage II/U.S. EPA Tier 2 equivalent

General		
Bore	105 mm	4.13 in
Stroke	127 mm	5 in
Displacement	4.4 l	269 in ³
Aspiration	Naturally aspirated	
Rotation from Flywheel End	Anti-clockwise	
Combustion System	Direct injection	
Compression Ratio	19.3:1	
Cooling System	Liquid	
Cycle	4 stroke	
Number of Cylinders	4 inline	

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

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Total Coolant Capacity	15 l	4 gal (US)
Total Lubricating Capacity	8.4 l	2.2 gal (US)

Engine Dimensions*

Dry Weight	475 kg	1047.2 lb
Height	962 mm	37.9 in
Length	1197 mm	45.7 in
Width	607 mm	24.5 in

Features and Benefits

Designed for lesser regulated territories

The 1100 Series range of engines have been specifically designed for use in territories with Stage II/IIIA and Tier 2/3 equivalent emissions standards, using the best technologies to ensure a reliable and easy to maintain machine. With a choice of naturally aspirated, turbocharged and turbocharged aftercooled it offers the best combination of power delivery and response.

Ease of maintenance

All of the engines have 500 hour service intervals. And single side service components, for ease of end user servicing.

Easy to upgrade

Common front and rear ends, connection points and components across the range mean that you can easily install a different 1100 Series engine in your application.

Expertise whenever you need it

With our network of distributors, you will find all the advice you need to ensure you get the right engine. By building strong relationships with you, we make sure you have access to the full power of the Perkins brand and expertise. Our fully trained experts deliver total service support 24/7, 365 days of the year. Whether you need technical information, parts identification or ordering, our distribution network is there to make sure your Perkins engine keeps on running at peak performance.

Oil and fuel filtration

The high quality oil and fuel filtration on our 1100 Series range produces an engine that is reliable and durable. Ecoplus fuel filtration is available to boost its clean running qualities and the engine is capable of running on a wide range of global fuels including biodiesel.

Technical Information

Air inlet system

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- Integral inlet manifold

Control system

- Alternator (12 or 24 volt)
- Starter motor (12 or 24 volt)

Cooling system

- Fan (pusher or puller)
- Gear driven coolant pump
- Radiator

Flywheels and flywheel housing

- SAE No. 3 flywheel housing

Fuel system

- Ecoplus fuel filter

General

- Balanced or non-balanced
- Cast iron engine block
- Glow plug starting aid

Oil system

- Lubricating oil sump steel, flat bottomed with dipstick on LHS
- Oil filler - middle of top cover
- Spin-on oil filter

Power take-off

- LHS PTOs - 142 Nm

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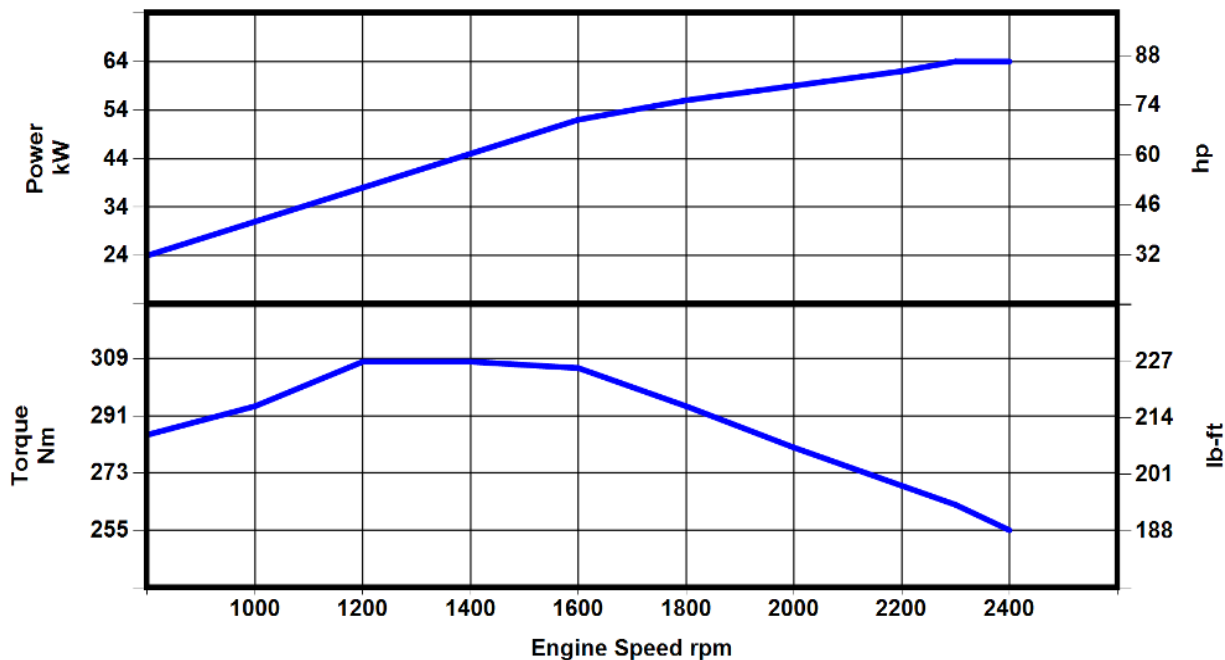
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1100 Series 1104C-44 INDUSTRIAL ENGINE

RCD I/CCNR Stage 2

62.0-64.0 kW / 83.1-85.8 hp



Power kW	Power hp	Rated Speed (rpm)	Torque Nm	Torque lb-ft	Speed (rpm)	Rating Type
62.0	83.1	2200	308	227	1200	Industrial C intermittent rating
63.5	85.2	2300	308	227	1200	Industrial C intermittent rating
64.0	85.8	2400	308	227	1200	Industrial C intermittent rating

Rating Standard ISO 14396:2002

Additional ratings are available for specific customer requirements. Consult your Perkins distributor.

Unless otherwise specified, all stated data is for maximum rated speed and 100% load.

B rating performance data will be added upon availability

Rating Definitions and Conditions

IND-C (Intermittent) Rating

Is the horsepower and speed capability of the engine where maximum power and/or speed are cyclic (time at full load not to exceed 50%).

Rating Conditions for Diesel Engines – up to 7.1 liters are based on ISO/TR14396, inlet air standard conditions with a total barometric pressure of 100 kPa (29.5 in. Hg), with a vapor pressure of 1 kPa (0.295 in Hg) and 25°C (77°F). Performance is measured using fuel to specification EPA 2D 89.330-96 with a density of 0.845-0.850 kg/L @ 15°C (59°F) and fuel inlet temperature 40°C (104°F).

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