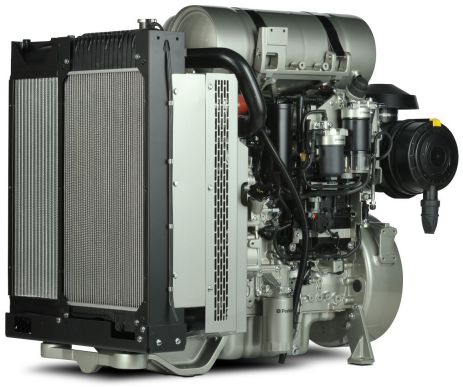
1204E-E44TTA Industrial Open Power Unit

117-129.4 kW (157-173 hp) @ 2200 rpm

EU Stage IIIB/U.S. EPA Tier 4 Interim equivalent



Our 1200 Series Tier 4 interim engines offer a smart solution for customers operating in EU Stage IIIB/U.S. EPA Tier 4 Interim equivalent territories. Ideally suited to large and medium-sized machines for construction, agriculture and materials handling – and also available as an IOPU – there's a Perkins 1200 Series engine for you. With common hook up points and multiple options, our solutions support your move to the more stringent Stage IV/Tier 4 Final emission standards.

Our IOPUs are designed to be productive and to offer the impressive power density that allows our customers to maximise their profitability. The 1204E-E44TTA IOPUs is series turbocharged.

Designed to meet EU Stage IIIB/U.S. EPA Tier 4 Interim equivalent emission standards.

Specifications

Power Rating		
Minimum power	117 kW	156.9 hp
Maximum power	129.4 kW	173.5 hp
Rated speed	2200 rpm	

Emission Standards	
Emissions	EU Stage IIIB/U.S. EPA Tier 4 Interim equivalent

General		
Number of cylinders	4 inline	
Bore	105 mm	4.13 in
Stroke	127 mm	5 in
Displacement	4.4 litres	268.5 cubic in
Aspiration	Series turbocharged aftercooled	
Compression ratio	16.5:1	
Combustion system	Direct injection	
Rotation (from flywheel end)	Anti-clockwise	
Cooling system	Liquid	
Total coolant capacity	10.8 litres	2.85 US Gal
Total lubricating capacity	13.5 litres	3.6 US Gal

Perkins®

THE HEART OF EVERY GREAT MACHINE

1204E-E44TTA Industrial Open Power Unit

117-129.4 kW (157-173 hp) @ 2200 rpm

EU Stage IIIB/U.S. EPA Tier 4 Interim equivalent

Engine Dimensions*		
Length	1433 mm	56.4 in
Width	795 mm	45.3 in
Height	1150 mm	45.3 in

Engine Dimension		
Dry weight	700 kg	1543.2 lb

Aftertreatment Dimensions* DOC/DPF > 82 kW (110 hp)		
Length	828 mm	32.6 in
Width	365 mm	14.3 in
Height	300.5 mm	11.8 in
Diameter	270.3 mm	10.6 in
Weight	37 kg	81.6 lb

Disclaimer		
*Final dimensions dependent on selected options	0	0

Features and Benefits

A lifetime of low cost

We designed our 1200 Series Tier 4 interim engines with optimised fuel consumption in mind, matching them to the operating cycles of a wide range of equipment and applications.
Low cost maintenance is achieved through hydraulic tappets, multi-vee belts, service free aftertreatment and 500 hour oil-change intervals.

Easy to switch

All the engines in our 1200 Series share common hook up points and option availability, ensuring our solutions can support your move to the more stringent Stage IV/Tier 4 Final emission standards. Our technology consistently delivers with a minimum of difficulty.
Like you, we believe there is no need for a trade-off between meeting emission standards and delivering on performance. The 1200 Series tackles the emissions challenge head-on and gives you improved productivity levels and fuel consumption compared to previous generation Stage IIIA/Tier 3 engines.

Ideal for downsizing

1204E-E44TTA Industrial Open Power Unit

117-129.4 kW (157-173 hp) @ 2200 rpm

EU Stage IIIB/U.S. EPA Tier 4 Interim equivalent

High power density, combined with excellent torque in our 1200 Series Tier 4 interim range allows you to select a more compact engine where previously you might have used an engine of a higher cubic capacity. This downsizing has several benefits, including the potential to save you money and provide more space to package aftertreatment units.

Tailored for your machine

Your needs are our top priority, which is why we provide tailored technology solutions. Working closely with OEMs, we have developed the 1200 Series with hundreds of variables so that it easily fits into your machine. Our 1200 Series interim engines come with two year warranties as standard and great value extended service contracts.

Technical Information

Aftertreatment technology

- 3″ flex pipe kits available with a variety of elbow options for turbocharger connection
- DOC – Diesel Oxidation Catalyst
- DPF – Diesel Particulate Filter

Air inlet system

- Standard air cleaners

Control system

- Full electronic control system, all connectors and wiring looms waterproof and designed to withstand harsh off-highway environments
- Flexible and configurable software features and J1939 standard communications I/O

Cooling system

- Engine mounted radiator with top tank temperature 108°C (226°F)
- 50:50 water glycol mix

Flywheels and flywheel housing

- Wide choice of drivetrain interfaces, including SAE No. 2 and SAE No. 3 configurations

Fuel system

- Electronic high pressure common rail
- Standard and heavy duty fuel filtration

General

- Available with or without a balancer
- Pusher or puller fan options

Oil system

- Wide choice of sumps for different applications

Power take-off

- SAE A and SAE B flanges on left-hand side. Additional SAE A flange available on left-hand side. Engine power can also be taken from the front of the engine on some applications. Factory fitted compressors are also available.

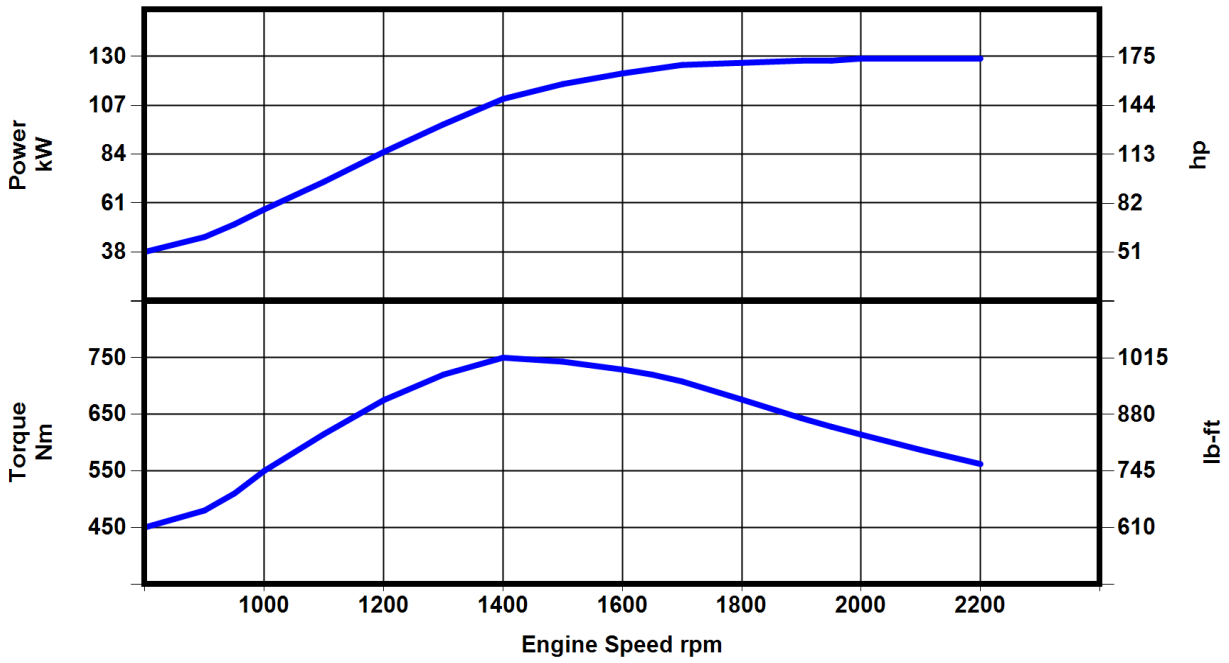
Standard emissions control equipment

- NRS - NOx Reduction System

1200 Series 1204E-E44TTA INDUSTRIAL ENGINE

EU Stage IIIB/U.S. EPA Tier 4 Interim

129-129 kW / 174-174 hp



Power kW	Power hp	Rated Speed (rpm)	Torque Nm	Torque lb-ft	Speed (rpm)	Rating Type
129	174	2200	750	1016	1400	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).