

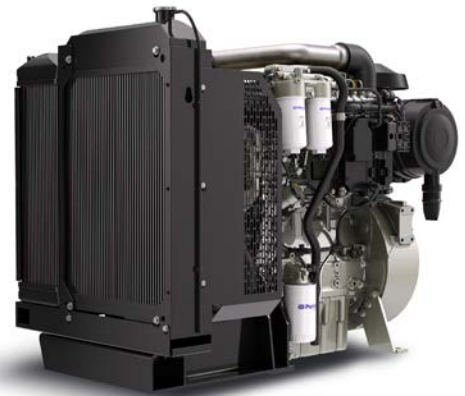
1100 Series 1104D-E44TA Industrial Open Power Unit

96.5 kW / 129.4 hp

Certified to EU Stage IIIA / U.S. EPA Tier 3 emissions legislation, the Perkins® 1104D-E44TA IOPU is a new addition to the 1100 Series range of IOPU engines. The 1100 Series electronic diesel engines are assembled on a new high technology production line, which makes frequent computerised checks during the production process ensuring high build quality/excellence is maintained.

The 1104D IOPIs have a complete fuel system, air cleaner and radiator fitted as standard along with a choice of mechanical or electronic control system making these the ultimate power solution.

The 1100D range with their wide choice of build options, plus all the features and benefits, present a secure future for all our customers at Stage IIIA / Tier 3 emissions legislation, and is the platform on which the long-term solution to Stage IIIB / Tier 4 legislation will be built.



Specification		
Number of cylinders	4 in-line	
Bore and stroke	105 x 127 mm	4.1 x 5.0 in
Displacement	4.4 litres	269 in ³
Aspiration	Turbocharged air-to-air aftercooled	
Cycle	4 stroke	
Combustion system	Direct injection	
Compression ratio	16.2:1	
Rotation	Anti-clockwise, viewed on flywheel	
Total lubricating capacity	8.4 litres	2.2 US gal
Cooling system	Liquid	
Total coolant capacity	17 litres	4.5 US gal

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 **Perkins®**

THE HEART OF EVERY GREAT MACHINE

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Features and benefits

Powered by your needs

- The 1104D-E44TA IOPU offers a choice of build configurations to match the power needs of customers for a diverse range of applications

State of the art design

- The 1104D-E44TA IOPU incorporates the latest common-rail fuel system technologies with a closely optimised air-management system which is overseen by the latest generation of electronic engine control. This allows the 1104D range to deliver high power density and excellent fuel economy with low exhaust emissions and the minimum of heat rejection

Reduced noise

- Noise minimised at source – engine sound levels have been reduced by 2 dBA
- Reduction in noise suppression costs

Component commonality

- Shared front and rear ends and ‘repeated’ components – pistons, con rods and valve gear
- Rationalised inventory, streamlined training and consistent serviceability

Lower installation costs

- Virtually identical hook-up points and envelope size as the 1104C-44TA
- Customer enjoys a seamless transition during the emissions changeover process

Lower operating costs

- The 1104D maintains Tier 2/Stage II fuel economy, allowing customers to keep existing fuel tanks
- Service intervals are 500 hours standard
- **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
- Low usage warranty package is also available

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

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Technical information

Air inlet

- Mounted air filter and turbocharger

Cooling system

- Fan (pusher or puller)
- Fan drive
- Radiator
- Water pump

Electrical equipment

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

Flywheel and housing

- Flywheel
- SAE 3 flywheel housing

Fuel system

- Fuel filter

Lubrication system

- Oil cooler and filter
- Timing case oil filler

Mountings

- Engine mounting brackets

PTO

- SAE A or SAE B front PTO (142/280 Nm)

Starting aids

- Glow plugs

Literature

- User's Handbook

Option groups

The 1104D-E44TA IOPU offers a wide choice of standard build specifications to meet specific customer needs:

- PTO drive adaptors
- Pusher or puller fan
- Air compressor (twin / single)

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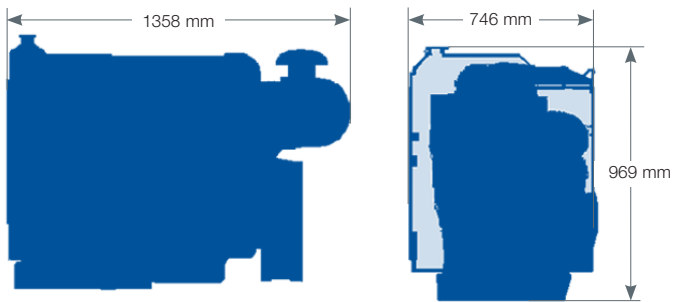
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Engine package weights and dimensions

Length	1358 mm	53.4 in
Width	746 mm	29.4 in
Height	969 mm	38.1 in
Weight (dry)	594 kg	1309 lb

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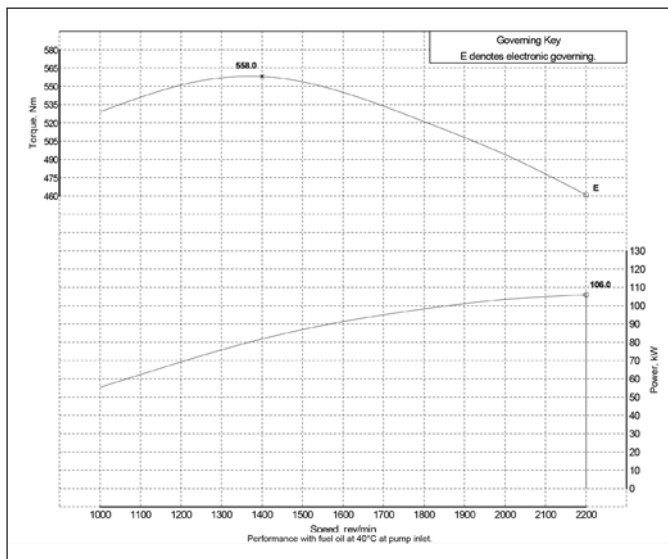
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Speed rpm	Power kW	Power hp	Speed rpm	Torque Nm	Torque lbf-ft	Rating type
2200	96.5	129.4	1400	516	380	C

Power for a run-in engine after 60 hours

Net Intermittent = Intermittent service where maximum power and/or are, cyclic (time at full load not to exceed 50%)

Rating standard ISO/TR 14396

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