1100 Series 1106D-E70TA IOPU

116-205 kW (156-275 bhp)

Designed to meet EU Stage IIIA / U.S. EPA Tier 3 emissions, the Perkins® 1106D-E70TA is the latest addition to the common platform concept of 1100 Series diesel engines.

This new engine will give you increased delivered power, torque and noise reduction. These improvements have been achieved through changes to the manifold and combustion areas, turbocharger geometry, increased cylinder displacement and significantly, the inclusion of a high pressure, common rail fuel system.

The 1104D IOPU range of engines 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.



Powered by your needs

- The Perkins 1106D-E70TA delivers up to 205 kW (275 hp) and over 1000 Nm (770 lb·ft) of torque, providing greater productivity through an improved power to weight ratio.
- The 1106D-E70TA IOPU offers a choice of build configurations to match the power needs of customers for a diverse range of applications, including a range of SAE 1, 2 and 3 flywheel housings, enabling the product to be tailored to specific customer needs.

State-of-the-art Design

 The 1106D-E70TA 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 1106D-E70 range to deliver high power density and excellent fuel economy with low exhaust emissions and the minimum of heat rejection.

Worldwide power solution

- Excellent fuel economy and low heat rejection, allowing customers to use a more compact cooling group.
- The new common rail fuel system delivers world-class robustness and packaged with the new filtration system, excellent tolerance to the different fuel qualities around the world. These fuels include aviation and biofuel (using biofuel that complies with Perkins standards). Options are available to meet local market needs.
- Noise levels have been reduced from the previous 6 cylinder model by up to 1 dB at low idle.

Lower installation costs

 The Perkins 1106D-E70TA maintains the same package size and variety of hook-up points as the current 1100 Series and 1200 Series platforms. This commonality reduces the cost impact for the customer during the changeover process.

Lower operating costs

- The 1106D maintains Tier 2 / Stage II fuel economy. This will allow many customers to keep existing fuel tanks, avoiding the need for costly redesign.
- Service intervals are set at 500 hours as standard and Perkins provides comprehensive warranty cover for two years (up to 3,000 hours), with three years on major engine components.
- A low usage warranty package is also available.

Long-term power solution

The 1106D range has been designed to fully comply with stringent Tier 3 / Stage IIIA emissions regulations, providing an emissions compliant power solution for the future.

Product support

- With highly trained Perkins distributors in thousands of communities in over 180 countries, you are never far away from expert product knowledge, genuine parts and a range of advanced diagnostic technology for keeping your engine in peak condition.
- Warranties and Service Contracts

We provide 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.com www.perkins.com/esc

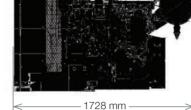
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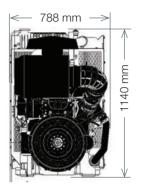


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Standard IOPU specification

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, 2, 1 flywheel housing

Fuel system

Fuel filter

Lubrication system

Oil cooler and filter Timing case oil filler

Mountings

Engine mounting brackets

PTO capability

SAE A front PTO

Starting aids

Glow plugs

Option groups

The 1106D-E70TA IOPU offers a wide choice of standard build specifications to meet specific customer needs: 12 or 24 volt alternator
Pusher or puller fan
SAE A front PTO (147 Nm continuous/210 Nm intermittent)

Engine data

Lingine data	
Number of cylinders	Vertical in-line 6 cylinder
Bore and stroke	105 x 135 mm (4.13 x 5.3 in)
Displacement	7.01 litres (427.7 cubic in)
Aspiration	Turbocharged aftercooled
Cycle	4 stroke
	Direct injection
Compression ratio	16.8:1
Engine rotation	. Anti-clockwise viewed on flywheel
Cooling system	Liquid
Total lubrication capacity	13-16 litres (3.4-4.2 US gal)
Total coolant capacity	15.2 litres (4 US gal)
Dimensions - Length	1728 mm (68 in)
Width	788 mm (31 in)
Height	1140 mm (44.9 in)
Dry weight	

Final weight and dimensions will depend on completed specification

Photographs are for illustrative purposes only and may not

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	Power		Torque		Dating
Aspiration	kW (bhp)	Speed (rpm)	Nm (lb-ft)	Speed (rpm)	Rating Type
TA	116 (156)	2200	706 (520)	1400	С
TA	*129 (173)	2200	800 (590)	1400	С
TA	151 (202)	2200	922 (680)	1400	С
TA	*168 (225)	2200	1028 (758)	1400	С
TA	*186 (249)	2200	1050 (774)	1400	С
TA	205 (275)	2200	1050 (774)	1400	С

^{*} curve shown

