



1100 Series

1106D-E66TA

Power Unit

Irrigation and industrial pump applications

115.6 kW/155 bhp

General Data

Number of cylinders	Vertical in-line 6 cylinder
Bore and stroke	105 mm x 127 mm (4.1 in x 5.0 in)
Displacement	6.6 litres (402.8 in ³)
Aspiration	Turbocharged air-to-air aftercooling
Cycle	4 stroke
Combustion system	Direct injection
Compression ratio	16.2:1
Rotation	Anti-clockwise viewed on flywheel
Cooling system	Water
Dimensions	Length 1707.8 mm (67.2 in)
	Width 767 mm (30.2 in)
	Height 1144 mm (45 in)
Dry weight	709 kg (1563 lbs)

Height is above mounting feet. Length includes a fitted air cleaner
Final weight and dimensions will depend on completed specification

Powered by your Needs

Perkins have developed a new set of ratings that has been specifically developed for irrigation and industrial pump applications.

The proven reliability and durability of Perkins engines, together with the benefits of quiet operation, low cost of ownership and excellent fuel consumption make these engines the ideal choice for this market - whether they are needed for centrifugal or deep well pumps; sprinkler or open discharge systems.

State of the Art Design

The Perkins 1106D utilises components of Caterpillar ACERT™ technology. This provides excellent fuel economy and low heat rejection.

Worldwide Power Solution

- The 1106D has been designed to be worldwide fuel tolerant, including kerosene, jet aviation fuel and 5% biofuel (RME). Options are available to meet local market needs.
- The engine boasts considerable increases to delivered power, torque and noise reduction. These 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.
- Perkins new 1106D-E66TA power unit range has a complete fuel system, air cleaner and radiator supplied as standard. Choice is provided to customers through the availability of a large variety of standard specifications incorporating a choice of fan, alternator, front PTO, and air compressor.

Lower Operating Costs

- The 1106D maintains Tier 2 / Stage II fuel economy. Service intervals are set at 500 hours as standard and Perkins provides comprehensive warranty cover for 2 years (up to 3000 hours), with 3 years on major engine components.
- Low usage warranty package and Extended Service Contract (ESC) combine to drive down the cost of ownership.

Long Term Power Solution

The 1106D power unit range has been designed to fully comply with stringent EPA Tier 3/ EU Stage IIIA emissions regulations for mobile applications.

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.

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Standard Power Unit Specification

Air inlet

- Mounted air filter and turbocharger

Cooling system

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

Electric equipment

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

Flywheel and housing

- Flywheel
- SAE 3 flywheel housing

Fuel system

- Fuel filter

Literature

- User's Handbook

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)

Start aids

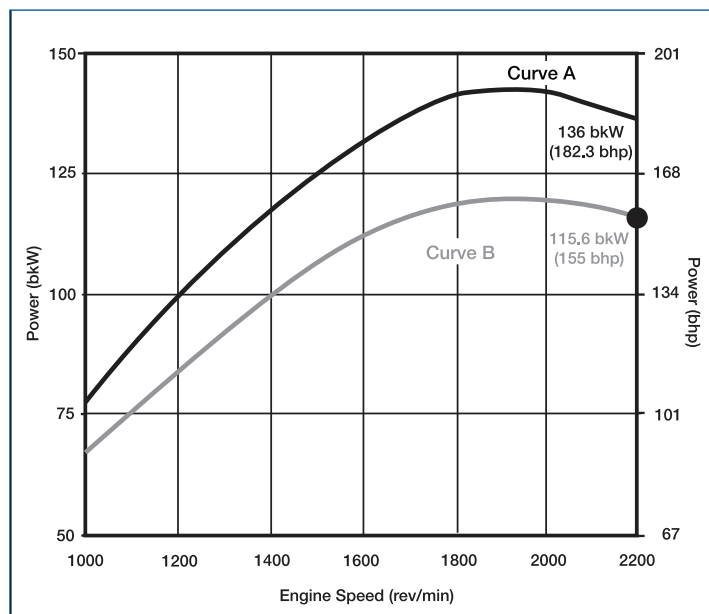
- Glow plugs

IOPU Options

The 1106D-E66TA power unit range offers a wide choice of standard build specifications to meet specific customer needs:

- 12 or 24 volt alternator
- Pusher or puller fan
- SAE A or SAE B front PTO (142/280 Nm)
SAE B provides 63 kW/85 hp
- Air compressor

Performance Data



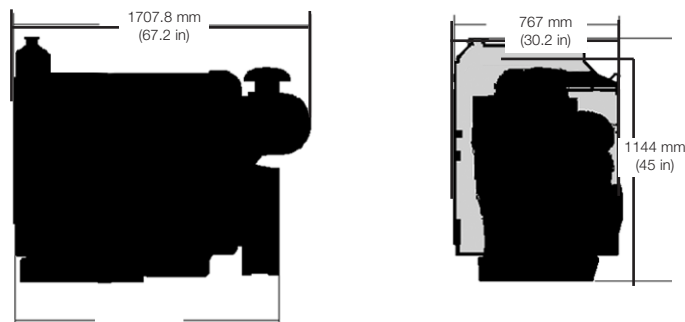
Speed (rpm)	Power (kW)	Power (bhp)	Fuel Consumption (l/hr)	Fuel Consumption (gal/hr)
2200	115.6	155	32.9	8.6

Rating Definitions and Conditions

Curve A represents the gross intermittent rating.

Curve B represents the maximum gross power curve for use when matching centrifugal pumps.

- Generally, pumps should be matched using the matching point shown less allowance for parasitic losses (eg, cooling fan, alternator).



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