Perkins

1000 Series

Agricultural/Industrial Power Units

1006-6TW

136 kW/182.5 bhp

Top of the range, this high performance turbocharged water to air aftercooled 6-cylinder unit is designed for compressors, mobile cranes, agricultural tractors and harvesters.

Based on Perkins' 60 years' experience in the development and production of diesel engines, this premium specification engine ensures the utmost dependability over a long working life.

Reliable power

Perkins' high manufacturing standards are approved to ISO 9000.
Maximum cooling efficiency is provided by the gear driven water pump and independent fan drive.
Leak free operation is ensured by Viton crankshaft seals and controlled swell joints, giving protection in the toughest conditions.

Durable power

A long, trouble free life is assured by the use of the highest quality components throughout the engine, from the deep skirted cylinder block, designed with the aid of computer technology, to premium quality, 3-ring controlled expansion pistons.
Enhanced engine life with inserted valve seats, oil spray cooled pistons, and integral plate oil cooler.

High performance, productive power

Exceptional power to weight with high torque and 21% torque back up made possible by Quadram direct injection combustion system matched to high specification turbocharger, and aftercooler.

Economical power

Excellent fuel economy is a direct result of the unique Quadram combustion system.

Easy low cost maintenance

Service intervals to 400 hours for oil and filters.
Quick, easy and economical maintenance is made possible by the convenient positioning of service points, for easy accessibility.
Improved parts availability and reduced inventory costs are achieved by the true family concept of the 1000 Series, giving parts commonality across the engine range.

Quiet, clean power

Operator and environmentally friendly with low noise, rapid startability and low emissions, achieved with the Quadram and high specification fuel injection equipment.
At 96 dbA the 1006-6TW is probably the quietest engine in its class.

Performance Data	Gross Intermittent*	Speed rev/min	Net Intermittent	Speed rev/min
Power Output (kW)	136	2600	121	2600
Power Output (bhp)	182.5	2600	162	2600
Peak Torque (Nm)	605	1650	566	1650
Peak Torque (lbf ft)	446	1650	410	1650

Power output for a run-in engine after 60 hours.
*Rating Standard ISO (TR) 14396

Photographs are for illustrative purposes only and may not reflect final specifications

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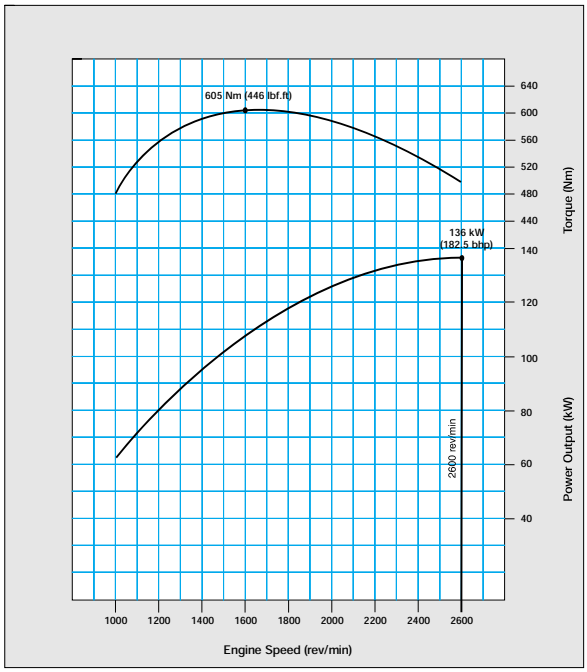


Note: Lower speed ratings may not be read from this curve.
Other ratings are available, please consult your Perkins representative.

Engine Specification

Cast iron engine block
Flywheel and flywheel housing
Rotary fuel injection pump
Fuel filter and prefilter
All-speed mechanical governor
Low inertia injectors
Turbocharger
Inlet manifold incorporating charge cooler
Cast iron exhaust manifold – centre outlet
Lub. oil sump
Spin on oil filter and oil cooler
12V/24V starter and alternator
Choice of cooling fans belt driven
Gear driven coolant pump
Lub. oil pressure switch
Cold start aid

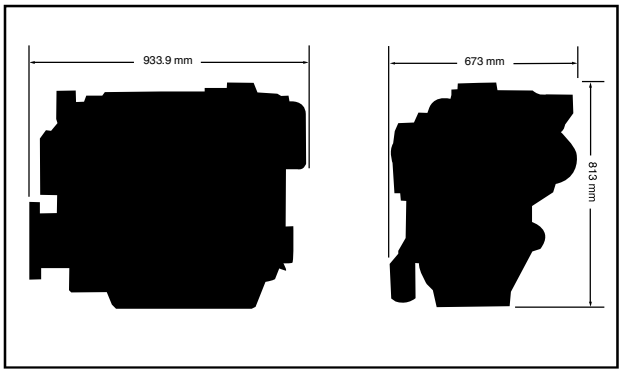
Option Groups

A selection of optional items is available to enable the customer to make up a specification precisely matched to his needs. These include alternative ratings, inlet manifolds, exhaust outlets, a range of flywheels and flywheel housings to suit various clutches and transmissions and a selection of power take-offs.

General Data

Bore and stroke	100 mm x 127 mm (3.937 in x 5.00 in)
Number of cylinders	6 in-line
Cubic capacity	6.0 litres (365.0 cu.in.)
Cycle	4 stroke
Aspiration	Turbocharged, with water/air aftercooling
Combustion system	Quadram direct injection
Compression ratio	16:1
Rotation	Anti-clockwise, viewed on flywheel
Cooling	Liquid
Length	933.9 mm (36.8 in)
Width	673 mm (26.5 in)
Height	813 mm (32 in)
Dry Weight	410 kg (902 lb)

Overall dimensions and weight will depend on final specification



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