

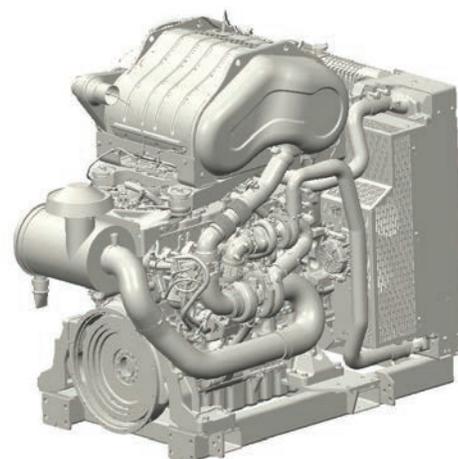
1200 Series 1206F-E70TTAG4 Diesel Engine - Electropak

EPA Tier 4 Final
239 kWm / 321 bhp

Building on its already strong EPA Tier 4 electric power range, Perkins is pleased to announce the addition of the 1206F Electropak.

The whole engine has been built around the demands of our customers and as such offers a great package with a simple integration design.

Perkins have developed a reputation for designing and building reliable and durable engines suitable for the most demanding applications.



Engine data

Number of cylinders	6 vertical in-line
Bore and stroke.....	105 mm x 135 mm (4.13 in x 5.3 in)
Displacement	7.01 litres (427.7 cubic in)
Aspiration TTA	Series turbocharged aftercooled
Cycle	4 stroke
Combustion system.....	Direct injection
Compression ratio	16.5:1
Rotation.....	Anti-clockwise, viewed on flywheel
Cooling system.....	Liquid
Total lubricating capacity.....	13-16 litres (3.4-4.2 US gal)
Total coolant capacity	15.2 litres (4 US gal)
Dimensions (including electrics and backend)	
Length	1769 mm (69.6 in)
Width.....	916 mm (36.0 in)
Height.....	1461 mm (57.5 in)
Dry weight	1087 kg (2396 lb)

Final weight and dimensions will depend on completed specification

Emissions

Designed to meet EPA Tier 4 Final (US).

Dependable power

World-class manufacturing capability and processes coupled with proven core engine designs assure reliability, quiet operation, and many hours of productive life.

Series turbocharging with smart wastegate.

Lifetime of low cost

Fuel consumption optimised to match operating cycles of a wide range of equipment and applications. No additional fluids or additives are required which lowers operating costs.

Hydraulic tappets, multi-vee belts, service-free aftertreatment and 500 hour oil change intervals enable low-cost maintenance.

Industry leading flexibility

Exceptional power density enables standardisation across numerous applications. Multiple installation options minimise total package size. Ideal for equipment with narrow engine compartments.

Local support, global coverage

- Perkins recognise that the customer relationship is important to machine manufacturers and we can offer a range of flexible solutions to help provide appropriate support, either to the OEM's network or directly to the machine customer.
- Perkins information systems enable our distributors to quickly diagnose engine faults and identify the right parts. The Perkins logistics operation is able to dispatch more than 45,000 different parts from stock, reaching the customer within 24 hours.
- Extended Service Contracts – protect and plan the cost of ownership.

Discover more

www.perkins.com
www.perkins.com/esc

www.perkins.com/distributor
To find your local distributor

Engine Speed rpm	Type of Operation	Generator Output		Engine Power			
				Gross		Net	
		kVA	kWe	kWm	bhp	kWm	bhp
1800	Prime Power	225	180	218	292	202	270
	Standby Power	250	200	239	321	223	299

Photographs are for illustrative purposes only and may not reflect final specification.

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Engine specification

Air inlet

- 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 well supported SAE J1939 CAN bus enables highly integrated machines

Cooling system

- 50:50 water glycol mix
- Tropical radiator as standard ensures optimal cooling performances all year round in any state

Standard emissions control equipment

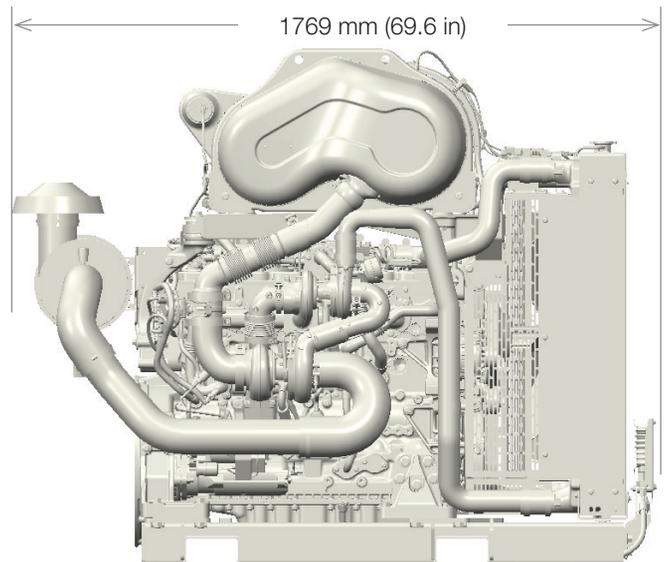
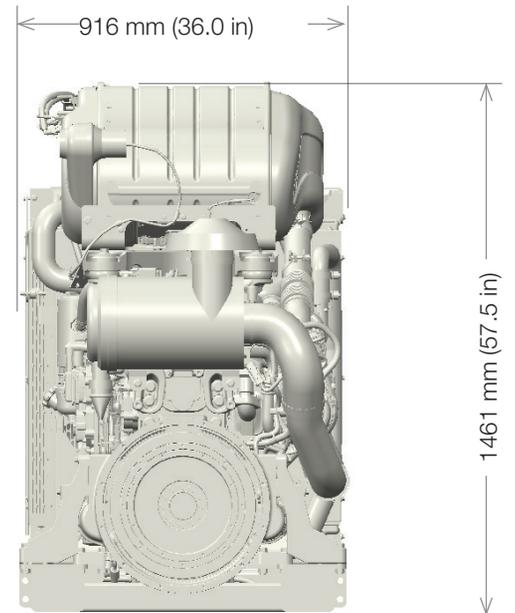
- NRS – NOx Reduction System

Flywheels and flywheel housing

- SAE 2 flywheel housing

Oil and fuel system

- Flat bottomed, isolated, aluminum sump
- Electronic high pressure common rail
- Innovative filter design – ensures maximum protection of the engine



Final weight and dimensions will depend on completed specification

Fuel Consumption		
Engine Speed	1800 rpm	
	g/kWh	l/hr
Standby	218	63
Prime Power	210	55
75% of Prime Power	207	41

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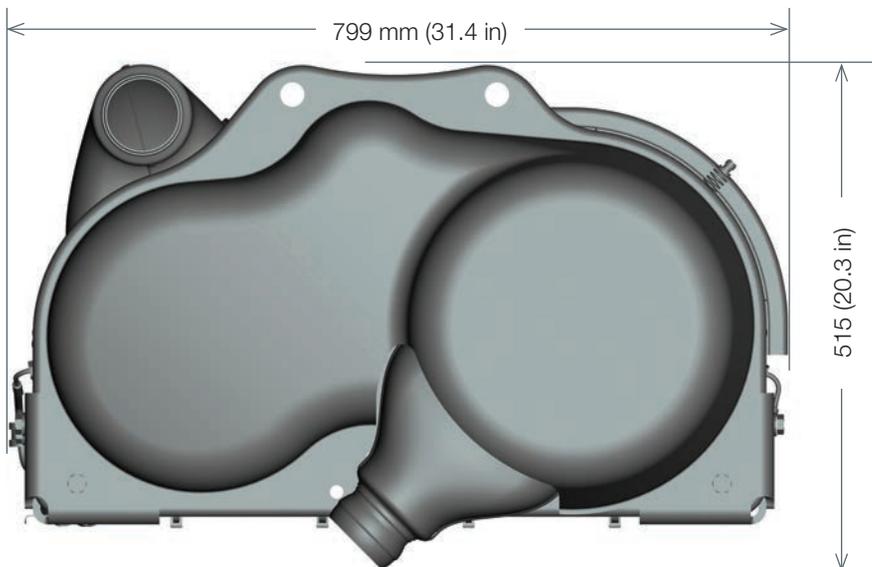
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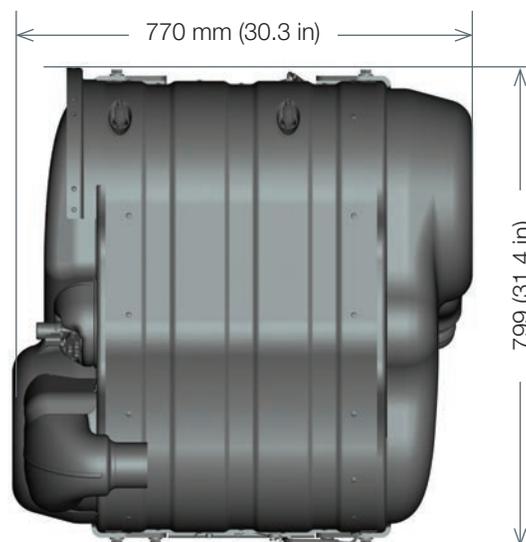
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Aftertreatment configuration

Front view



Top view



Final weight and dimensions will depend on completed specification

Technology

The DPF technology chosen is a wall flow filter configuration. This enables the engine to be optimised for superior performance and low fuel consumption.

Power

Using our advanced research and development techniques, we have perfectly matched the aftertreatment to the engine. The engine performance has then been optimised to give the maximum power and in normal operation, the regeneration is invisible to the operator.

Regeneration

Passive Regenerations System maximises fuel efficiency during regeneration.

Mounting

Engine mounted aftertreatment provides the OEM with a simple-to-install solution.

Service

Aftertreatment designed to be service-free.

Aftertreatment

- Basic aftertreatment package includes DOC / DPF/ SCR
- DOC – Diesel Oxidation Catalyst
- DPF – Diesel Particulate Filter
- SCR – Selective Catalytic Reduction
- 3" flex pipe connection kit with rotatable elbow for 60° and 90° RS inlet flexibility

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