

# 1706D Electric Power Engines

**Power range 1800 rpm 294-354 kWm** (engine gross power)

**Emissions U.S. EPA Tier 3**

The Perkins® 1700 Series is engineered to provide class leading performance and maximise competitive advantage for our customers.

Developed on a latest generation 9.3 litre core, the 1706 offers greater capability and more flexibility to our customers from a simple plug and play product.



## Features and benefits

- A high power density product that combines dependable power and high efficiency coupled with proven core engine designs assures **maximum durability, reliability** and quiet operation.
- Designed to provide more flexibility to our customers and offer a simple plug and play product allowing for **easier installation**.
- With fuel consumption optimized to both prime power and continuous running applications and the requirement for no additional fluids or additives result in **lower cost of ownership**.
- Throughout the life of a Perkins engine, we provide access to genuine OE specification parts along with vee belts and 500-hour oil change intervals enabling **low-cost maintenance**.
- Perkins offer a range of flexible solutions to help provide appropriate support, either to the OEM's network or directly to the machine customer. Our information systems enable our distributors to quickly diagnose engine faults and identify the right parts supported by the Perkins logistics operation ability to dispatch more than 45,000 different parts from stock, reaching the customer within 24 hours helping to **maximise the productive life** of your engine.
- Perkins takes pride in manufacturing all products globally to the same **high quality standard**. All of our products are manufactured in world class facilities to ensure highest quality for your peace of mind.

Photographs are for illustrative purposes only and may not reflect final specification. All information in this document is substantially correct at time of printing and may be altered subsequently. Final weight and dimensions will depend on completed specification. Information subject to selected configuration, and subject to change without notice.

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 **Perkins®**

THE HEART OF EVERY GREAT MACHINE

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## Specification

	Model	
	1706D-E93TAG1	1706D-E93TAG2
Configuration	ElectropaK	
Cylinders	6 vertical in-line	
Displacement, litres (in <sup>3</sup> )	9.29 (567)	
Aspiration	Turbocharged aftercooled	
Bore and stroke, mm (in)	114 x 149 (4.5 x 5.9)	
Combustion system	Direct injection	
Compression ratio	16.5:1	
Exhaust aftertreatment	N/A	
Rotation (viewed from flywheel)	Anti-clockwise, viewed on flywheel	
Total lubricating oil capacity, litres (US gal)	26-30 (6.9-7.9)	
Cooling system	Liquid	
Total coolant capacity, litres (US gal)	35.8 (9.5)	

## Technical information

Model	Speed	Type of Operation	Engine Power		Typical Generator Output* (Net)		Prime Fuel Consumption				
			Gross	Net			110%	100%	75%	50%	25%
	rpm		kWm (hp)	kWm (hp)	kVA	kWe	g/kWh	g/kWh	g/kWh	g/kWh	g/kWh
1706D-E93TAG1	1800	Prime	267 (358)	254 (341)	292	234	213	215	224	246	259
		Standby	294 (394)	281 (377)	323	259					
1706D-E93TAG2	1800	Prime	322 (432)	309 (415)	356	284	215	217	218	235	253
		Standby	354 (475)	341 (458)	393	314					

\*Generator powers are typical and based on typical alternator efficiencies and a power factor (cos  $\theta$ ) or 0.8.

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## Standard equipment

	Model	
	1706D-E93TAG1	1706D-E93TAG2
Electro unit or electropaK	ElectropaK	ElectropaK
Radiator fitted	✓	✓
Fuel filter, engine mounted	✓	✓
Water separator	ü	ü
Fuel priming pump (manual/electric)	Manual	Manual
Fuel cooler	N/A	N/A
Air filter, engine mounted	✓	✓
Engine ECM, engine mounted	✓	✓
Wiring harness to ECM	✓	✓
Wiring harness (all connectors to single customer interface)	✗	✗
Starter motor	✓	✓
Battery charging alternator	✓	✓
Flywheel housing	✓	✓
Flywheel	✓	✓
Fan	✓	✓
Fan guard	✓	✓
Temp and oil pressure for automatic stop/alarm configurable	✓	✓

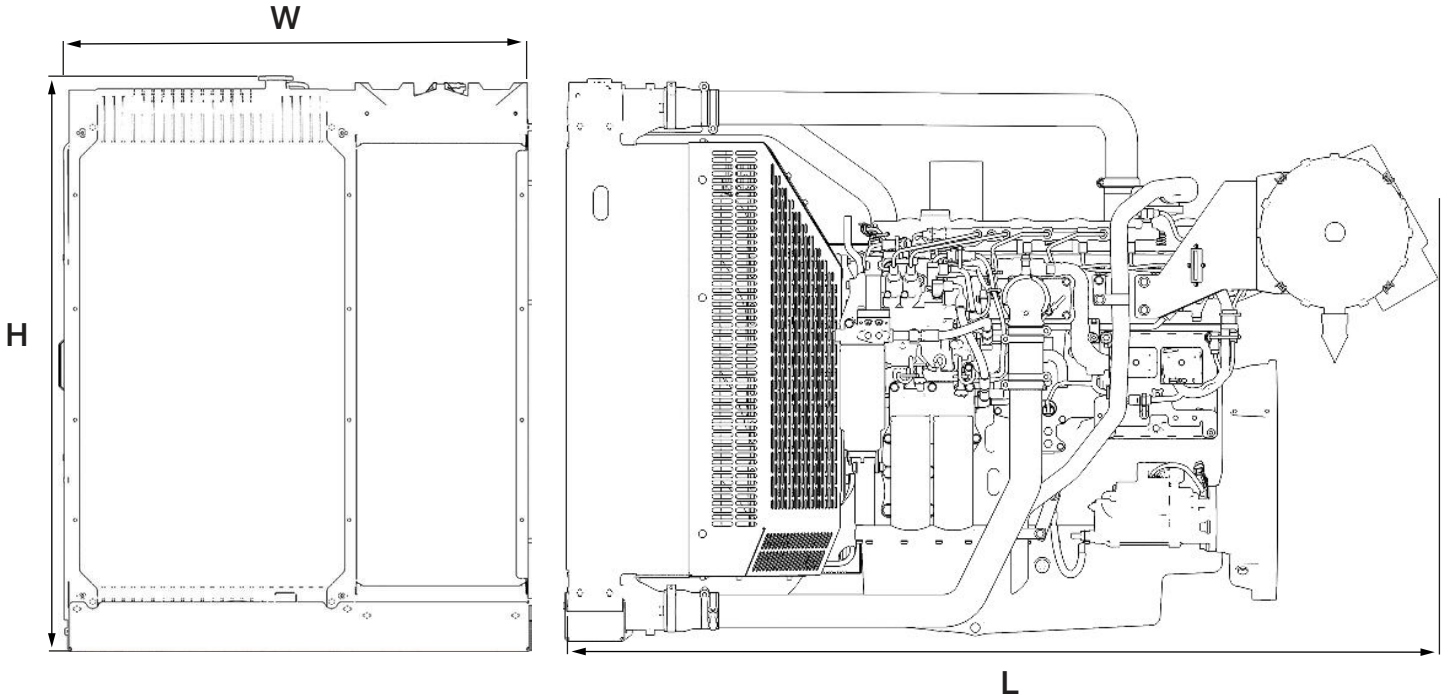
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## Engine package weights and dimensions



	Model	
	1706D-E93TAG1	1706D-E93TAG2
Configuration	Electropak	
Dimensions, H x L x W, mm (in)	1311 x 2083 x 1091 (51.6 x 81.9 x 42.9)	
Dry weight, kg (lb)	1070 (2359)	

Prime Power: Power available at variable load in lieu of a main power network. Overload of 10% is permitted for 1 hour in every 12 hours of operation.

Standby (maximum): Power available at variable load in the event of a main power network failure. No overload is permitted.

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