

1706D-E93TAG Electric Power Engines

Power range 1800 rpm

267-354 kW (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 the 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 optimised 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 parts from stock, reaching the customer within 24 hours helping to **maximise the productive life** of your engine.
- Engines are produced using the Caterpillar Production System established in all Perkins manufacturing operations, achieving the same **efficient processes** and **stringent quality controls** at every global facility.

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Specification

	Model	
	1706D-E93TAG1	1706D-E93TAG2
Configuration	ElectropaK	
Cylinders	6 vertical in-line	
Displacement, litres (in ³)	9.3 (567.5)	
Aspiration	Turbocharged aftercooled	
Bore and stroke, mm (in)	115 × 149 (4.5 × 5.9)	
Combustion system	Direct injection	
Compression ratio	16.5:1	
Exhaust aftertreatment	N/A	
Rotation (viewed from flywheel)	Anti-clockwise	
Total lubricating oil capacity, litres (US gal)	26-30 (6.9-7.9)	
Cooling system	Liquid	
Total coolant capacity, litres (US gal)	36 (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		kW (hp)	kW (hp)	kVA	kWe	g/kWh	g/kWh	g/kWh	g/kWh	g/kWh
1706D-E93TAG1	1800	Prime	267 (358)	254 (341)	296	237	213	215	224	246	259
		Standby	294 (394)	281 (377)	327	261					
1706D-E93TAG2	1800	Prime	322 (432)	309 (415)	359	288	215	217	218	235	253
		Standby	354 (475)	341 (458)	397	318					

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

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Standard Equipment

	Model	
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Electro unit or ElectropaK	ElectropaK	
Radiator fitted	✓	
Fuel filter, engine mounted	✓	
Water separator	✓	
Fuel priming pump (manual/electric)	Manual	
Fuel cooler (not required for most installations)	N/A	
Air filter, engine mounted	✓	
Engine ECM, engine mounted	✓	
Wiring harness to ECM	✓	
Wiring harness (all connectors to single customer interface)	x	
Starter motor	✓	
Battery charging alternator	✓	
Flywheel housing	✓	
Flywheel	✓	
Fan	✓	
Fan guard	✓	
Temperature and oil pressure for automatic stop/alarm configurable	✓	

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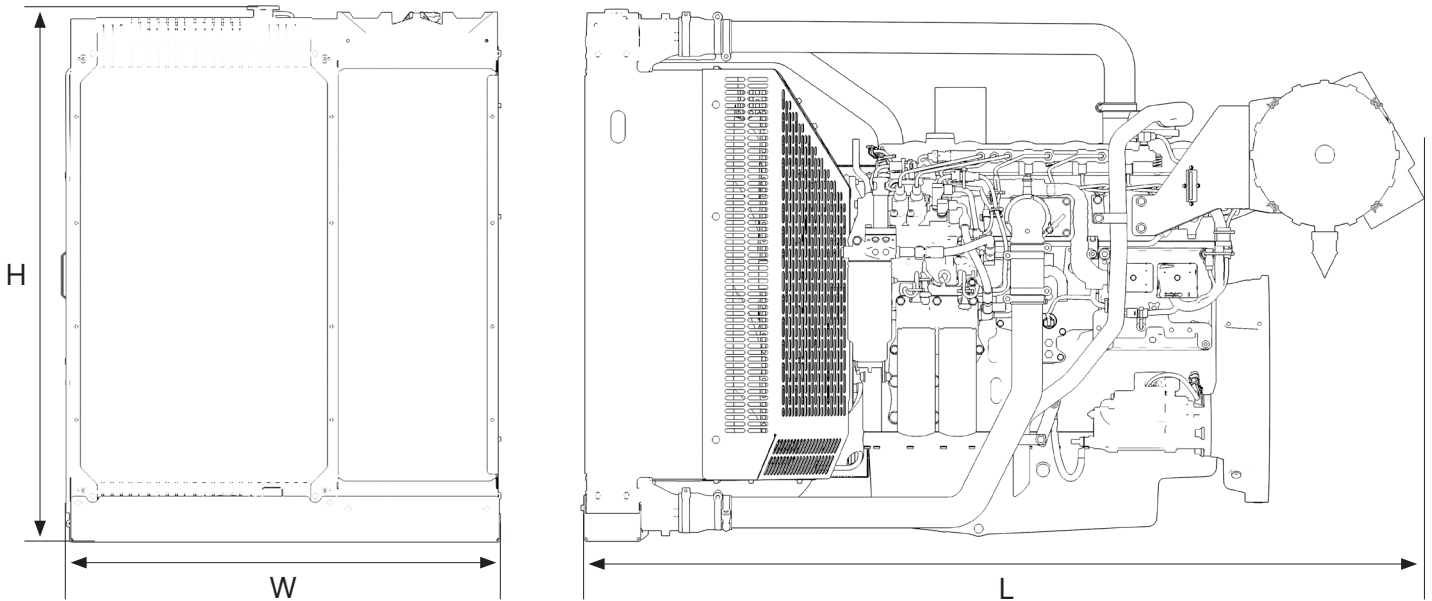
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Engine Package Weights and Dimensions



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

Prime power: Unlimited hours usage with an average load factor of 80 percent of the published prime power over each 24 hour period. A 10 percent overload is available for one hour in every 12 hours operation. No overload is permitted.

Standby power: Limited to 500 hours annual usage with an average load factor of 80 percent of the published standby power over each 24 hour period. Up to 300 hours of annual usage may be run continuously. No overload is permitted.